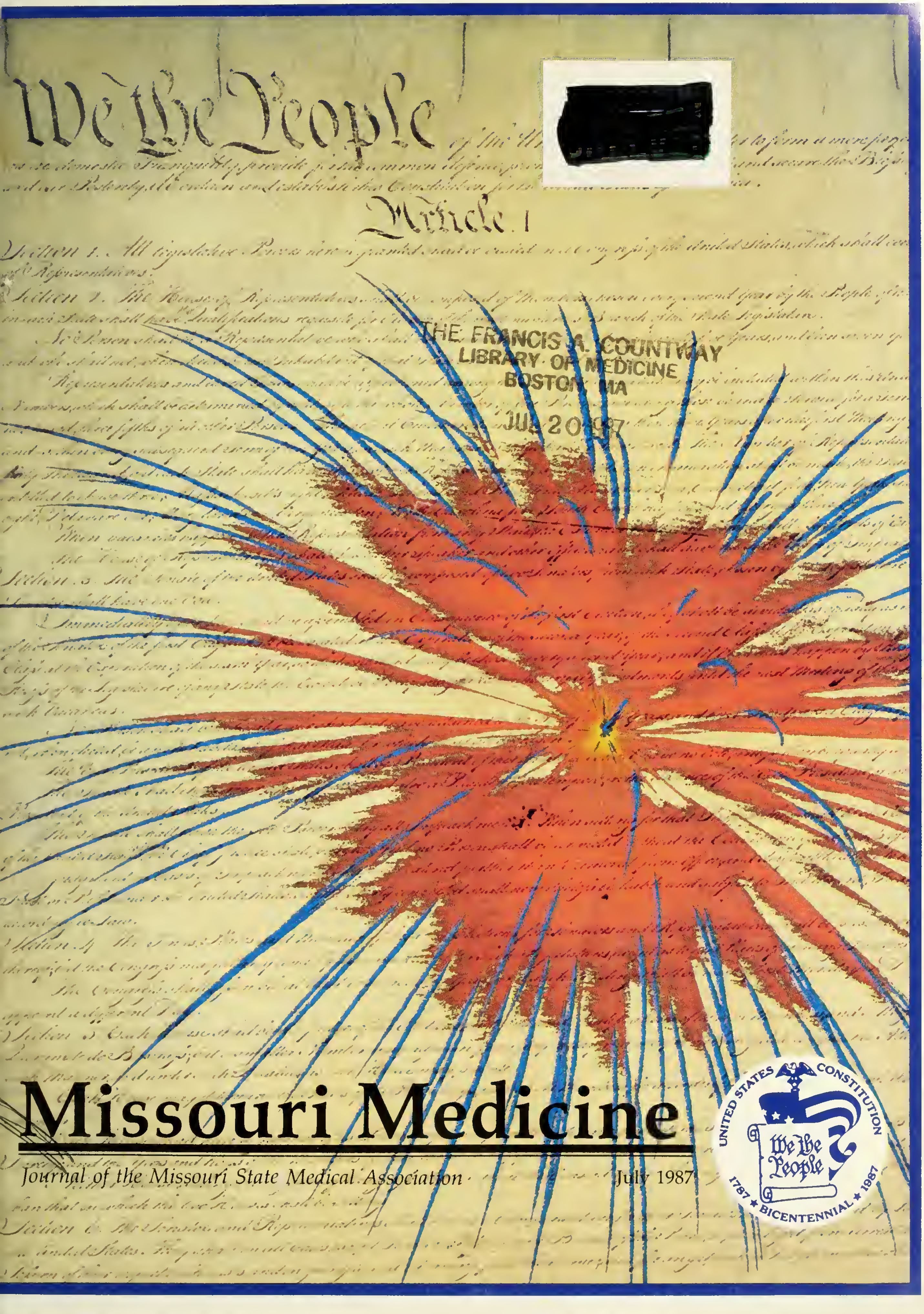
BOSTON MEDICAL LIBRARY
IN THE
FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE

Digitized by the Internet Archive
in 2016

https://archive.org/details/missourimedicine8471miss



[redacted]

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA

JUL 20 1987

Missouri Medicine

Journal of the Missouri State Medical Association

July 1987

UNITED STATES CONSTITUTION
We The People
1787 ★ BICENTENNIAL ★ 1987

HAD A SUIT
PRESSED
LATELY?

Professional liability insurance is designed to protect you in the event of an allegation of medical malpractice. If you have ever been sued, you realize the importance of the claims staff of your insurance carrier.

MOMEDICO employs a staff of highly trained professionals to help you deal with claims and lawsuits. Our record speaks for itself—of all claims which have been handled to conclusion, 81.4% have been closed without payment of indemnity. We care about your professional reputation. We will not compromise a claim simply to save defense dollars.

Choose the carrier that puts your reputation above frivolous remuneration.

MOMEDICO

10795 Watson Road, St. Louis, MO 63127
314-965-1003 or toll free 800-392-8039

Jefferson City Office, 113 Madison
Jefferson City, MO 65101, 314-634-8090

Kansas City Office, 9229 Ward Parkway, Suite 290
Kansas City, MO 64114, 816-363-6161

Founded by the Missouri State Medical Association

Contents

ON CALL

Missouri State Medical Association	314/636-5151
American Medical Association	312/645-5000
MSMA Physician Rehabilitation Hotline	816/531-1258
MOMEDICO	1-800-392-8039
Dodson Insurance Group	1-800-892-3431
E. F. Hutton	*(Call collect)* 314/725-9690
Forrest T. Jones	1-800-892-7272
Fred S. James	Kansas City 816/842-6670 St. Louis 314/863-7777
Health Care Financing Administration	816/374-5233
Intrav	314/727-0500
Medicaid Provider Relations	1-800-392-0938
Medicare Provider Relations	1-800-392-3070
Medicare Part B Blue Cross Blue Shield	Kansas City 1-800-654-9629
Missouri Department of Health	314/751-6400
Missouri Department of Social Services	314/751-2086
Missouri Patient Care Review Foundation	*(Preadmission)* 1-800-392-8060 *(General Info)* 1-800-392-1312
Missouri State Bureau of Narcotics and Dangerous Drugs	314/751-8042
Missouri State Board of Registration of the Healing Arts	314/751-2334

Cover

As a tribute to the 200th anniversary of the **U.S. Constitution,** July's MISSOURI MEDICINE cover features the actual document (transparency provided by the National Archives in Washington, D.C.) with the bursting **"Fireworks"** photographed by Charles S. Sherwin, M.D., of *Clayton,* superimposed on top of the first slide. The logo in the lower right corner is for the U.S. Constitution Bicentennial Committee known as "We the People." Each state has its own "We the People" organization that will coordinate statewide events through 1991. Missouri kicks off the celebration at the Veiled Prophet Fair in St. Louis, July 4th weekend.

Scientific Article

339 **Medical Progress and the U.S. Constitution: Two Centuries**
Philip C. Anderson, M.D., *Columbia*

Update

341 **Missouri's Changing Health Care System**
Robert G. Harmon, M.D., M.P.H., *Jefferson City*

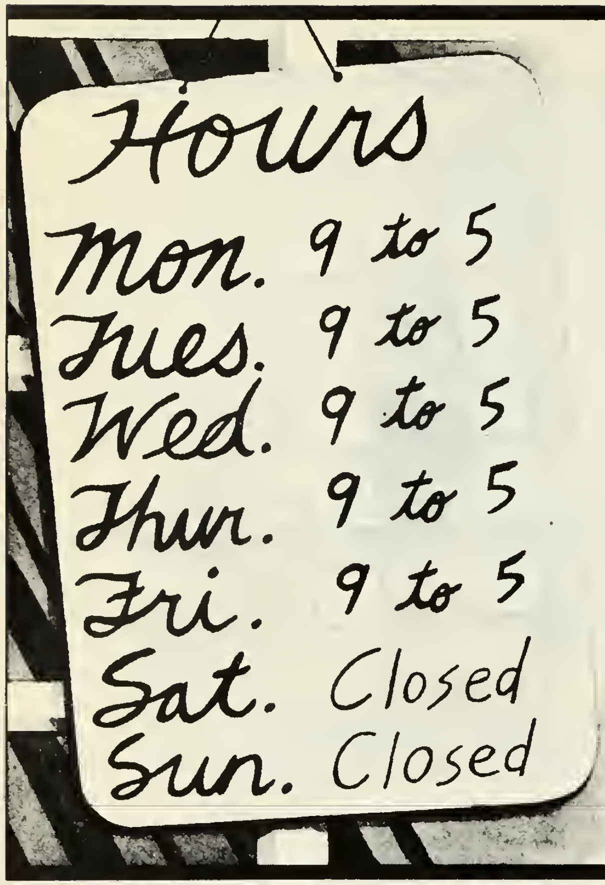
Departments

331 Progress Notes
335 Editor's Desk
337 Practice Management
381 Index to Advertisers
381 Information for Contributors
385 New Members
386 Physician's Recognition Award
387 Medical School News
391 Continuing Medical Education
393 Classifieds

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA
JUL 20 1987

1987 Annual Convention

348 Minutes of the House of Delegates
357 Resolutions
360 Courtesy Resolutions
361 President's Message
363 Presidential Inauguration Speech
366 Auxiliary Report
367 Exhibitors
368 Missouri State Medical Foundation
371 Summary of Council Minutes
375 Committee and Commission Reports
382 Convention Registration



Accidents Don't Keep Regular Hours. Neither Should Your Personal Accident Insurance.

And when they do, they can be costly. That's why the MSMA sponsors an insurance plan for members . . . one that offers attractive coverage at a favorable price.

Accidents occur everywhere — on planes — on buses or other public conveyances — in cars — on the job — in the home — in sports activities.

All members under age 65 are eligible. Your spouse and children (to age 23) can be covered if you apply. Coverage is provided without regard to health history.

The plan is underwritten by Commercial Insurance Company, Newark, N.J.

A NEW, IMPROVED program is now available to you!

Coverage has been broadened and premiums reduced.

Up to $200,000 coverage available for members — Spouse and Children may also be insured.

For full particulars, the Administrators invite you to call or write today.

detach here and mail

Mail to: James
FRED.S.JAMES&CO.OFMISSOURI,INC.

Eastern Missouri Administrator
231 S. Bemiston
Clayton, MO 63105
(314) 863-7777

Western Missouri Administrator
2420 Pershing Road
Kansas City, MO 64108
(816) 842-6670

Please send me a brochure and application for the Missouri State Medical Association sponsored plan(s) I've checked below. I understand there is absolutely no obligation.

☐ Personal Disability Income
☐ Office Overhead Expense
☐ Hospital Indemnity Plan
☐ Accidental Death & Dismemberment Insurance

Name ______________________________

Address ______________________________

City ______________ State ______________ ZIP ________

Phone: (   ) ______________ Best time to call: ________

Missouri Medicine

Vol. 84, No. 7 *Journal of the Missouri State Medical Association* July 1987

ditor
ordan W. Burkey, M.D.
Associate Editor
Donald G. Sessions, M.D.
Managing Editor
usan Flanigan Gold
Business Manager
Royal O. Cooper
ditorial Assistant
Valerie Peters

EDITORIAL BOARD

Anesthesiology
George P. Hoech, Jr., M.D.
Cardiovascular Surgery
ack J. Curtis, M.D.
Dermatology
Philip C. Anderson, M.D.
Ernest Lorenc, M.D.
Emergency Medicine
David M. Trantham, M.D.
Family Practice
William D. Bradshaw, M.D.
Carl R. Kruse, M.D.
Kirby L. Turner, M.D.
Gastroenterology
ay P. Marshall, II, M.D.
nternal Medicine
ohn S. Daniels, M.D.
Stephen Hamburger, M.D.
Robert K. Skillman, M.D.
Neonatology
Elizabeth J. James, M.D.
Neurosurgery
Fred D. Fowler, M.D.
Obstetrics and Gynecology
Thomas M. Mier, M.D.
Oncology
Michael C. Perry, M.D.
Ophthalmology
John C. Hagan, III, M.D.
F. Thomas Ott, M.D.
Orthopedics
Raymond A. Ritter, Jr., M.D.
Otorhinolaryngology
Bentley A. Nelson, M.D.
Pathology
Eugene F. Tucker, M.D.
Pediatrics
R. Don Blim, M.D.
Psychiatry
William F. Clary, M.D.
Radiation Therapy
MacDonald B. Logie, M.D.
Radiology
Frederick M. Brandon, M.D.
Donald R. Germann, M.D.
General Surgery
Richard O. Craig, M.D.
Donald Silver, M.D.
Urology
Gilbert Ross, Jr., M.D.

PUBLICATIONS COMMITTEE

Chairman
Jordan W. Burkey, M.D.
Vice-Chairman
Donald G. Sessions, M.D.
Members
Donald E. Menchetti, M.D.
Jerry W. Templer, M.D.
John K. Layle, M.D.
Earl R. Schultz, M.D.

MSMA STAFF

Executive Vice President
Royal O. Cooper
Executive Director
C. C. Swarens
Director of Scientific Affairs
Ron Ellison
Field Secretary
Don Wilson
Director of Governmental Relations
Gary Dey
Director of Communications
R. Kay Dinolfo

Devoted to the interest of the medical profession and public health in Missouri

MSMA Officers

President	Larry G. Piepergerdes, M.D., *Kansas City*
President-Elect	T. J. Cooper, M.D., *St. Louis*
Secretary	Berry Ivy, M.D., *Springfield*
Treasurer	Jay Meyer, M.D., *St. Louis*
Immediate Past President	H. Peter Ekern, M.D., *Mexico*
Vice President	William J. Medlicott, M.D., *Kansas City*
Vice President	William C. Allen, M.D., *Columbia*
Vice President	John P. Roberts, M.D., *St. Louis*
Speaker	Arlen D. Winsky, M.D., *Springfield*
Vice-Speaker	Jo-Ellyn M. Ryall, M.D., *St. Louis*

Councilors

Marvin A. Singleton, M.D., *Joplin,* Chairman
Gary A. Dyer, M.D., *St. Joseph,* Vice Chairman
Robert V. Tompson, M.D., *Moberly*
William H. Huffaker, M.D., *St. Louis*
J. Otto Lottes, M.D., *St. Louis*
Arturo Montes, M.D., *St. Louis*
Frederick D. Peterson, M.D., *St. Louis*
David Wilkinson, M.D., *St. Louis*
Carol F. Williams, M.D., *St. Louis*
J. Michael Conoyer, M.D., *St. Peters*
Alan L. Braun, M.D., *Jefferson City*
Kenneth L. Rall, M.D., *Columbia*
A. J. Campbell, M.D., *Sedalia*
Raymond J. Caffrey, M.D., *Independence*
Robert T. Gibbons, M.D., *Prairie Village, KS*
Frederick W. Hahn, M.D., *Kansas City*
Dorothy D. Reister, M.D., *Shawnee Mission, KS*
Francis M. Corry, M.D., *Springfield*
David O. Barbe, M.D., *Mountain Grove*
Melvin C. Kasten, M.D., *Cape Girardeau*
Dean Blakeley, *Columbia*
Charles W. Barbee, M.D., *Columbia*
Gerry A. Love, M.D., *Kansas City*

Vice Councilors

Stephen Vilmer, M.D., *Shawnee Mission, KS*
Carl R. Kruse, M.D., *Palmyra*
Frank Ostapowicz, M.D., *Clayton*
Sammy L. Farrell, M.D., *Washington*
Jerry Murrell, M.D., *Columbia*
Jerry Meyer, M.D., *Concordia*
Mark W. Martin, M.D., *Lee's Summit*
David W. Hall, M.D., *Rogersville*
Thomas R. Stubbs, M.D., *West Plains*
William C. Shell, M.D., *Sikeston*
Evan Saunders, *St. Louis*
William Dorzab, M.D., *Kansas City*
Victoria Martin, M.D., *Shawnee Mission, KS*

AMA Delegates

Francis X. Lieb, M.D., *St. Louis*
Hugh E. Stephenson, Jr., M.D., *Columbia*
George M. Bohigian, M.D., *St. Louis*
Melvin C. Kasten, M.D., *Cape Girardeau*
Larry G. Piepergerdes, M.D., *Kansas City*
Vernon H. Balster, M.D., *St. Louis*
Walter A. German, M.D., *Springfield*

Printing Office: The Ovid Bell Press, Inc., Fulton 65251

Missouri Medicine (ISSN 0026-6620) is published monthly by the Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102.

Subscription rates: $15 per year. Interns and Residents, $7.50 per year

Second class postage paid at Jefferson City, Missouri and at additional mailing offices.

Postmaster: Send address changes to Missouri State Medical Association, c/o Membership Department, P.O. Box 1028, Jefferson City, MO 65102.

The articles published in *Missouri Medicine* represent the opinions of the authors, and do not necessarily reflect the official policy of the Missouri State Medical Association.

Copyright © 1987 by the Missouri State Medical Association. All rights reserved. Publication number 355380.

New **HemaWipe**® System
Designed to solve
the compliance problem

Just wipe, peel and seal.

Introducing the first "civilized" test
for fecal occult blood.

For more information call

The GOETZE-NIEMER CO.
1701 Brooklyn, K.C., MO. 816-231-1900
1-800-892-7337 (MO) 1-800-492-7337 (KS)

Where you refer your rehab patient can make a lifetime of difference

Your primary concern is rehabilitating the victim of serious injury or physical impairment to the maximum degree possible.

This is our *only* concern.

At SSM Rehab, we provide comprehensive medical rehabilitation services to recovering adults and adolescents, including several programs not available elsewhere in this region.

Our rehabilitation professionals design a specific program for each patient you refer, in close consultation with you. We then carry out this program with one thought in mind: to realize this human being's fullest potential for recovery, as soon as possible.

Call **314/862-9162** or write now for complete information about our services. Know in advance what we can do at SSM Rehab…

Where the potential of tomorrow is realized today

SSM
REHABILITATION
INSTITUTE

St. Joseph Health Center/St. Charles, MO 63301 • St. Mary's Health Center/St. Louis, MO 63117

An Equal Opportunity/Affirmative Action Employer • Services provided on a non-discriminatory basis
A MEMBER OF THE SSM HEALTH CARE SYSTEM

MSMA Progress Notes

Council highlights

An MSMA response to a Department of Health AIDS testing plan and two pilot membership projects were among Council agenda items at the body's meeting May 30 at the Lake of the Ozarks.

Councilors discussed the implications of a newly-released AIDS testing plan that requires the reporting of all positive tests for HIV antibody. The Council voted to send a response to the Department of Health seeking a rule change that would make only positive confirmatory tests (such as Western blot) reportable, and not screening tests (such as ELISA).

Following a special membership report, the Council approved a pilot plan for credit-card payment of dues, involving the Boone County Medical Society and the AMA.

Approval was also given to a "phonathon" designed to persuade unpaid members to renew their memberships. Set for July 10 at Stephens College, Columbia, participants will include Councilors, Vice Councilors, AMA delegates, and officers of the St. Louis Metropolitan Medical Society, the Metropolitan Medical Society of Greater Kansas City, and the Boone County Medical Society.

In other action, Councilors discussed the distribution of a handbook on physician contracting. It was decided to adapt a California Medical Association publication for MSMA members' use. Cost of the handbook would be $5. The book is intended to answer questions and provide guidelines for evaluating contracts.

Valerie A. Peters photo

Larry G. Piepergerdes, M.D., president of MSMA, presents a special award of appreciation to Mohammad N. Akhter, M.D., M.P.H. at the May 30 Council meeting. Dr. Akhter is stepping down as head of the Missouri PRO to return to his native Pakistan.

District 6 Councilor A.J. Campbell, M.D., Sedalia, reported his district's concern over medical relicensure being linked to accepting Medicare assignment. Accordingly, the Council voted to refer the issue to the Committee on Legislative Affairs for study and a report.

Marvin A. Singleton, M.D., Joplin, reported that a hospital in his area was offering financial incentives to physicians who complete their patient charts in timely manner. Voicing concern that the incentives could amount to payment for admitting patients to that hospital, Dr. Singleton made a motion to refer the matter to the Judicial Council, the Hospital Medical Staff Section and the Missouri Hospital Association. The motion carried, and further study of the ethical and contractual issues will be undertaken.

In other action, the Council:

- approved Tan-Tar-A, Lake of the Ozarks, as the site for the 1990 annual convention, April 4-8.
- approved reports from the Missouri State Medical Foundation; the Publication Committee; the Conjoint Meeting of the Executive Committees from MSMA, MAOPS and MHA; the Legislative Affairs Commmittee; and the MSMA Auxiliary.
- reviewed 1987 House of Delegates actions.
- approved CME accreditations for the Greater Kansas City Mental Health Foundation, St. Luke's Hospital of Chesterfield, Freeman Hospital in Joplin, and Kansas City Southwest Clinical Society.
- voted to investigate the AMA Medical Payment System, a "paperless" electronic system for medical claims and reimbursement.
- President Larry Piepergerdes made the following appointments:
- Building Committee — Members of the Budget and Finance Committee, Drs. J. Otto Lottes, H. Peter Ekern, and Robert T. Gibbons, Jr.

"Sunsetting" Committee — Drs. Carol F. Williams, David O. Barbe, Charles W. Barbee, Robert V. Tompson, and Arlen Winskey.

Councilor-Advisors — Drs. David Wilkinson (Medical-Legal Affairs), Gary A. Dyer (Medical Education and Health Manpower), Arturo C. Montes (Medical Economics and Third-Party Medicine), and Robert T. Gibbons, Jr., (Public Affairs).

The next meeting of the Council is September 12 at the Holiday Inn, Lake of the Ozarks.

■

State Board names officers

Frank I. Clark, M.D., of Columbia, Missouri was elected President of the Missouri State Board of Registration for the Healing Arts at the agency's recent meeting. Formerly in the private practice of pediatrics, Dr. Clark is now serving in a neonatology fellowship at the University of Missouri-Columbia Medical Center.

C. C. Reynolds, M.D., was elected to his second term as Secretary of the Board. Dr. Reynolds resides in Kansas City where he is engaged in the private practice of internal medicine.

The Board is charged with the responsibility of licensing and regulating the practice of medicine in the State of Missouri. It is required to review consumer complaints about medical care and to evaluate all claims of medical malpractice filed in the State.

■

Session ends on high notes

After more than five months of consideration, the General Assembly adjourned at midnight June 15 with several bills supported by medicine being adopted in the closing days!

Senate Bill 52 (Family Practice Residencies) cleared the Budget Committee and sailed through the House to final passage. It is now on the Governor's desk for his consideration. Please **write the Governor** asking that he **sign Senate Bill 52.**

The bill rewriting the Medical Practice Act to provide the **Board of Healing Arts** with expanded powers, the one that provides certain physicians malpractice coverage under the **State Legal Expense Fund,** the one that requires **publishing of the names** of disciplined physicians (as amended with MSMA support) and the one that provides patients with **"freedom-of-choice"** regarding prescriptions (as amended with MSMA support) **all Passed** as one bill, **HCS HB 667.**

As time grew short, the language from **SB 215, HB 147** and **HB 202** was amended onto **HB 667.** All of the language was agreeable to MSMA. An amendment providing the Chiropractic Board more disciplinary powers was also "tacked" onto the bill along with a provision that will permit chiropractors to use the term "chiropractic physician" without first using the initials "D.C." They can already call themselves chiropractic physicians, but must use the initials.

The Legislature also responded to medicine's requests for additional moneys in the **Medicaid Program.** In a special recommendation, the fee for OB services was increased from around $420 to $600. An across-the-board fee increase was granted and the Program was expanded to include those indigent mothers and infants too poor to have insurance.

Following is the action taken on some major issues:

What Passed

SB 31/29 — Which deals with designation of state trauma centers and sets monitoring standards for E.M.T.'s.

SB 230 — The "Abuse and Lose" bill which places further restrictions on minors who use alcohol or drugs.

HB 51/49 — Which allows BNDD to suspend or revoke the "number" of a physician for violating a Federal controlled substance law.

HB 357 — Which corrects an error from an earlier bill which might have allowed some guardians to escape responsibility for their minors' medical bills.

HB 416 — Which places additional restrictions on the sale of fireworks in Missouri.

HB 700 — The "Product Liability Reform" bill which includes a provision providing liability protection for directors and officers serving on not-for-profit boards.

What did not pass?

HB 44 — Which would have mandated direct third-party payment for services of Registered Nurses.

HB 146 — Which would have established the "MedAssist" program to provide state insurance for the uninsured and underinsured.

HB 189 — Which would have directed the Division of Family Services to pay for arthritis drugs on the Medicaid formulary. The need for the bill was negated when the Division, drug industry, MSMA and interested doctors negotiated a new rule which facilitates prescribing of such drugs when needed.

HB 393 — Which would have legalized the practice of lay midwifery in Missouri.

HB 465 — Which would have mandated that Medicaid reimburse R.N.'s direct for their services.

HB 670 — Which would have established a system of "registration" for dietitians, physician assistants, respiratory therapists and occupational therapists. This was an alternative to the annual requests for licensure of many allied health groups.

SB 34 — Which would have, in effect, repealed the state's Seat Belt law by eliminating the penalty clause.

SB 111 — Which would have prohibited smoking in certain public places.

Also failing to pass were the eight bills which would have licensed various health groups and the original language in HB 202 which would have prohibited a physician from employing a physical therapist or having ownership in a P.T. clinic.

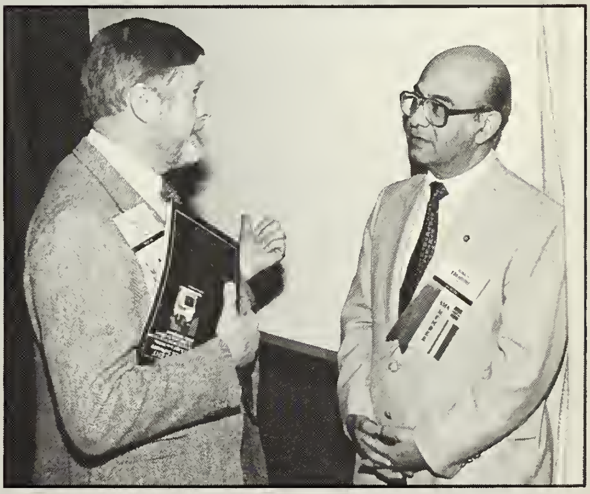
■

Convention Candids

The MSMA and the MSMA Auxiliary installed their new presidents at the Annual Convention. From left, John and Sandy Mitchell celebrate Sandy's installation as Auxiliary president with Margaret and Larry Piepergerdes who was inaugurated as MSMA president.

MISSOURI
STATE
MEDICAL
ASSOCIATION

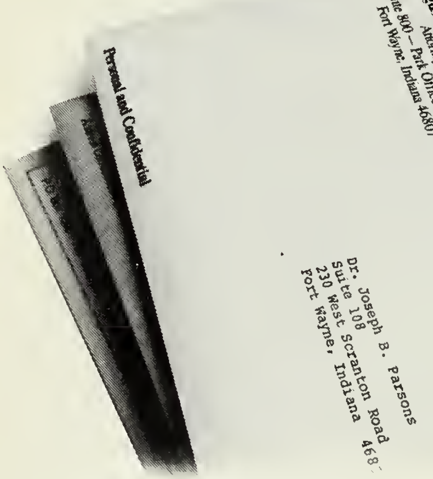
T. J. Cooper (center) beams after being introduced to the MSMA House of Delegates as the new president-elect. Vice Speaker Jo-Ellyn Ryall and Speaker Arlen Winsky join in the applause.



Donald Potts (left) and Donald Fakhoury discuss House actions during a break at Annual Convention.

From left, Berry Ivy, MSMA secretary; Thomas Macdonnell, State Representative for the 140th District and former MSMA vice president, and Marvin Singleton, MSMA Council chairman and head of MMPAC, discuss Dr. Macdonnell's new position as the "only doctor in the House."

Crisis in black and white.


Ferguson, Jenson & Saltsberg
Attorneys at Law
Suite 800 – Park Office Building
Fort Wayne, Indiana 46807
Personal and Confidential
Dr. Joseph B. Parsons
Suite 108
230 West Scranton Road
Fort Wayne, Indiana 468

Your personal crisis may be waiting in the morning mail. If so, you'll want the best professional help. You'll want a Medical Protective General Agent.

Professional liability coverage is our only business. And we've been providing it for almost 100 years. Our agents live in the territories they serve so they understand the local legal climate. And with the extensive resources of the home office Law Department to draw from, they're always ready to answer your questions or give advice.

Someday it may be you against a negligence charge. When that day comes and your professional reputation is on the line, you're going to want all the help you can get. To make sure you have it, contact your Medical Protective General Agent today.

THE
MEDICAL PROTECTIVE COMPANY
FORT WAYNE, INDIANA

Ralph E. Borgmann, Philip E. Moppert, Suite 120, 13100 Manchester Road, St. Louis, MO 63131, (314) 965-7400
Robert E. McCurdy, Thomas E. Meierant, Suite 290, 7500 West 95th Street, P.O. Box 12128, Overland Park, KS 66212, (913) 381-4222

Are your receivables under the weather?

Make them well again with

OPERATION CASH FLOW

If your receivables aren't working for you, get a heavy dose of wellness with Operation Cash Flow, a unique three day on-site professional strategic review of management systems that affect your cash flow.

At a glance, Operation Cash Flow includes:

- Registration Strategy
- Innovative Cashiering
- Medicare and Medicaid Review
- Timely Insurance Billing
- Insurance Follow-up Methodology
- Credit and Collections for Today
- Productivity and Goal Setting

Put Your Receivables Back To Work With Operation Cash Flow

Call the Special Services Division — Berlin-Wheeler toll free today for more information:

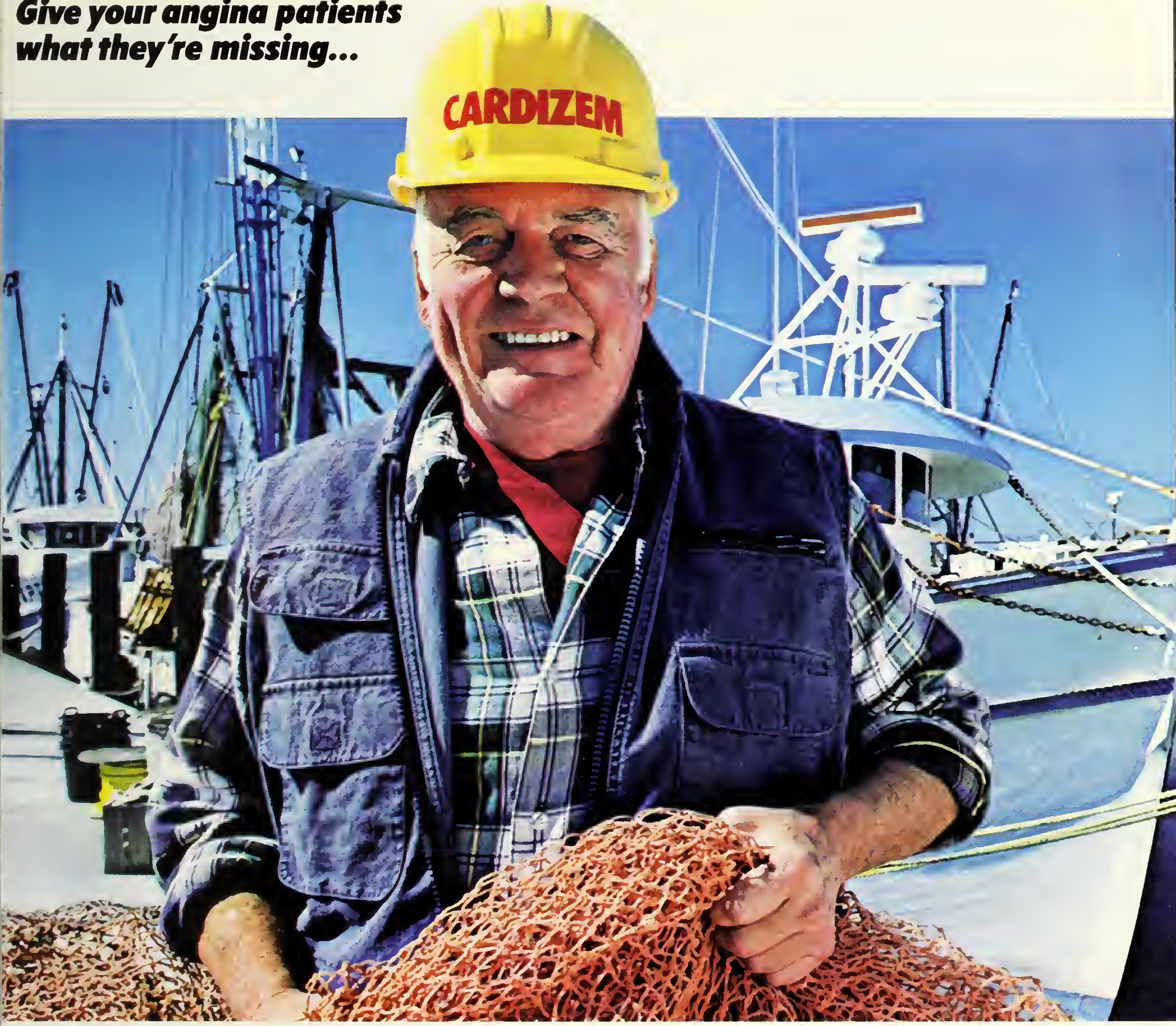
Berlin-Wheeler
Accounts Receivable Specialists
1-800-255-6001 (U.S.)
1-800-392-3479
(In Missouri)

Special Offer!
Mention this ad when you call and get a free booklet on guidelines for extending credit and collecting receivables.

☐ Yes! Please send me your free booklet.
☐ Yes! Please send me more information about Operation Cash Flow.
Name ____________________
Address ____________________
City ____________ State ____ Zip ____
Mail coupon to: Berlin-Wheeler, 711 W. McCarty St., P.O. Box 463 Jefferson City, MO 65102

md

Give your angina patients what they're missing...



CARDIZEM®: FEW SIDE EFFECTS

diltiazem HCl/Marion

- **Antianginal action includes dilatation of coronary arteries, a decrease in vascular resistance/afterload, and a reduction in heart rate**
- **Proven efficacy when used alone in angina[1]**
- **Compatible with other antianginals[2,3*]**
- **A safe choice for angina patients with coexisting hypertension, asthma, COPD, or PVD[4,5]**

90 mg GREATER DOSAGE FLEXIBILITY NEW 120 mg

***See Warnings and Precautions.**

Please see brief summary of prescribing information on the next page.

CARDIZEM® FEW SIDE EFFECTS IN ANTIANGINAL THERAPY

diltiazem HCl/Marion

60 mg tid or qid

Brief Summary
Professional Use Information

CARDIZEM®
(diltiazem HCl) 30 mg and 60 mg Tablets

CONTRAINDICATIONS

CARDIZEM is contraindicated in (1) patients with sick sinus syndrome except in the presence of a functioning ventricular pacemaker, (2) patients with second- or third-degree AV block except in the presence of a functioning ventricular pacemaker, and (3) patients with hypotension (less than 90 mm Hg systolic).

WARNINGS

1. **Cardiac Conduction.** CARDIZEM prolongs AV node refractory periods without significantly prolonging sinus node recovery time, except in patients with sick sinus syndrome. This effect may rarely result in abnormally slow heart rates (particularly in patients with sick sinus syndrome) or second- or third-degree AV block (six of 1,243 patients for 0.48%). Concomitant use of diltiazem with beta-blockers or digitalis may result in additive effects on cardiac conduction. A patient with Prinzmetal's angina developed periods of asystole (2 to 5 seconds) after a single dose of 60 mg of diltiazem.
2. **Congestive Heart Failure.** Although diltiazem has a negative inotropic effect in isolated animal tissue preparations, hemodynamic studies in humans with normal ventricular function have not shown a reduction in cardiac index nor consistent negative effects on contractility (dp/dt).
   Experience with the use of CARDIZEM alone or in combination with beta-blockers in patients with impaired ventricular function is very limited. Caution should be exercised when using the drug in such patients.
3. **Hypotension.** Decreases in blood pressure associated with CARDIZEM therapy may occasionally result in symptomatic hypotension.
4. **Acute Hepatic Injury.** In rare instances, significant elevations in enzymes such as alkaline phosphatase, CPK, LDH, SGOT, SGPT, and other symptoms consistent with acute hepatic injury have been noted. These reactions have been reversible upon discontinuation of drug therapy. The relationship to CARDIZEM is uncertain in most cases, but probable in some. (See PRECAUTIONS.)

PRECAUTIONS

General. CARDIZEM (diltiazem hydrochloride) is extensively metabolized by the liver and excreted by the kidneys and in bile. As with any new drug given over prolonged periods, laboratory parameters should be monitored at regular intervals. The drug should be used with caution in patients with impaired renal or hepatic function. In subacute and chronic dog and rat studies designed to produce toxicity, high doses of diltiazem were associated with hepatic damage. In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats were associated with histological changes in the liver which were reversible when the drug was discontinued. In dogs, doses of 20 mg/kg were also associated with hepatic changes, however, these changes were reversible with continued dosing.

Drug Interaction. Pharmacologic studies indicate that there may be additive effects in prolonging AV conduction when using beta-blockers or digitalis concomitantly with CARDIZEM. (See WARNINGS.)

Controlled and uncontrolled domestic studies suggest that concomitant use of CARDIZEM and beta-blockers or digitalis is usually well tolerated. Available data are not sufficient, however, to predict the effects of concomitant treatment, particularly in patients with left ventricular dysfunction or cardiac conduction abnormalities. In healthy volunteers, diltiazem has been shown to increase serum digoxin levels up to 20%.

Carcinogenesis, Mutagenesis, Impairment of Fertility. A 24-month study in rats and a 21-month study in mice showed no evidence of carcinogenicity. There was also no mutagenic response in in vitro bacterial tests. No intrinsic effect on fertility was observed in rats.

Pregnancy. Category C. Reproduction studies have been conducted in mice, rats, and rabbits. Administration of doses ranging from five to ten times greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and fetal lethality. These doses, in some studies, have been reported to cause skeletal abnormalities. In the perinatal/postnatal studies, there was some reduction in early individual pup weights and survival rates. There was an increased incidence of stillbirths at doses of 20 times the human dose or greater.

There are no well-controlled studies in pregnant women; therefore, use CARDIZEM in pregnant women only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers. Diltiazem is excreted in human milk. One report suggests that concentrations in breast milk may approximate serum levels. If use of CARDIZEM is deemed essential, an alternative method of infant feeding should be instituted.

Pediatric Use. Safety and effectiveness in children have not been established.

ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but it should be recognized that patients with impaired ventricular function and cardiac conduction abnormalities have usually been excluded.

In domestic placebo-controlled trials, the incidence of adverse reactions reported during CARDIZEM therapy was not greater than that reported during placebo therapy.

The following represent occurrences observed in clinical studies which can be at least reasonably associated with the pharmacology of calcium influx inhibition. In many cases, the relationship to CARDIZEM has not been established. The most common occurrences as well as their frequency of presentation are: edema (2.4%), headache (2.1%), nausea (1.9%), dizziness (1.5%), rash (1.3%), asthenia (1.2%). In addition, the following events were reported infrequently (less than 1%):

Cardiovascular:	Angina, arrhythmia, AV block (first degree), AV block (second or third degree — see conduction warning), bradycardia, congestive heart failure, flushing, hypotension, palpitations, syncope
Nervous System:	Amnesia, gait abnormality, hallucinations, insomnia, nervousness, paresthesia, personality change, somnolence, tinnitus, tremor.
Gastrointestinal:	Anorexia, constipation, diarrhea, dysgeusia, dyspepsia, mild elevations of alkaline phosphatase, SGOT, SGPT, and LDH (see hepatic warnings), vomiting, weight increase.
Dermatologic:	Petechiae, pruritus, photosensitivity, urticaria.
Other:	Amblyopia, dyspnea, epistaxis, eye irritation, hyperglycemia, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties

The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: alopecia, gingival hyperplasia, erythema multiforme, and leukopenia. However, a definitive cause and effect between these events and CARDIZEM therapy is yet to be established.

Issued 7/86

See complete Professional Use Information before prescribing.

References: 1. Pepine CJ, Feldman RL, Hill JA, et al: Clinical outcome after treatment of rest angina with calcium blockers. Comparative experience during the initial year of therapy with diltiazem, nifedipine, and verapamil. Am Heart J 1983, 106(6):1341-1347. **2.** Shapiro W: Calcium channel blockers: Actions on the heart and uses in ischemic heart disease. Consultant 1984,24(Dec):150-159. **3.** Johnston DL, Lesoway R, Humen DP, et al: Clinical and hemodynamic evaluation of propranolol in combination with verapamil, nifedipine and diltiazem in exertional angina pectoris. A placebo-controlled, double-blind, randomized, crossover study. Am J Cardiol 1985,55:680-687. **4.** Cohn PF, Braunwald E: Chronic ischemic heart disease, in Braunwald E (ed): Heart Disease. A Textbook of Cardiovascular Medicine, ed 2. Philadelphia, WB Saunders Co, 1984, chap 39. **5.** Schroeder JS: Calcium and beta blockers in ischemic heart disease: When to use which. Mod Med 1982,50(Sept):94-116.

Another patient benefit product from

PHARMACEUTICAL DIVISION
MARION
LABORATORIES, INC.
KANSAS CITY, MO 64137

0246M6

EDITOR'S DESK

by Jordan Warren Burkey, M.D.

Warren was his country's choice
Called to arms by its voice
Quit drug & pill his post to fill
And take command at Bunker Hill
And then a cursed unlucky shot
Struck Warren in a vital spot

Joseph Warren, M.D. — physician and patriot

July has always been a month for patriotism, because of the Glorious Fourth, fireworks and all. This year the 200th anniversary of the United States' Constitution is being celebrated, and a fair amount of attention has been centered here in Missouri. Dr. Philip Anderson of Columbia, who is a member of the U.S. Constitution Bicentennial Commission of Missouri, has contributed an article in this issue on the effect of the Constitution on medical practice.

If physicians are to exude patriotism, what better way is there than to refer back to Dr. Joseph Warren. This 1759 Harvard Medical School graduate had a successful medical practice in Boston in the 1760s, and would not have had to suffer the hardships of patriotism for "America," which existed then only as a concept in the minds of a few. Joseph Warren the physician can be much admired. His biographers* note that he was gentle with courage, had easy manners, warmth and enthusiasm, but was "careless about collecting fees."

Warren was quick to adopt new ideas even when they were not yet popular. He promoted and gave smallpox vaccinations even in violation of a Boston city ordinance. (Local politicians of that day had no more foresight than those of the present time.) He quickly adopted the new European practice of tying off vessels in amputations. As a leader in medical circles he refused to go along with new "cures" which he considered quackery, and promoted a bill to examine "those who called themselves Doctors."

How did this top-grade physician fare in the rumblings preceding the Revolutionary War? He was described as a "moderate in medicine; a radical in politics." While most of Boston was loyal to the British Crown, he probably took part in the Boston Tea Party, and lost his important appointment as physician to the almshouse. He involved himself in pro-American politics, sent Paul Revere on his ride, and organized the Continentals at Lexington. He was not bull-headed, however; he and British General Gage tried to work out a compromise, but it failed.

When the chips were down, he refused a less demanding position as Surgeon General, choosing rather to be a regular army soldier. It was as Major General Warren that he became in 1775 the first American general killed in action, defending a retreat in the Battle of Bunker Hill — Breed's Hill to historical purists.

Physicians can take pride in what one good doctor can do for a cause. (I'll stretch out my signature this month to include this illustrious ancestral namesake.) We can all watch the fireworks, restudy the Constitution, fly the flag, and consider the good and proper causes we can champion. ■

---

*Truax R: *The Doctors Warren of Boston.* Boston, Houghton Miffin Company, 1968.

$11MM
$9MM
$7MM

How Much Is Your Family Worth?

It is nearly impossible to put a price on something as precious as your family's health. If they need medical attention, you want to give them the best. That is the best reason to have the MSMA $1,000,000 Major Medical Protection Plan.

- Your choice of deductible—$200, $500, or $1,000
- $1,000,000 lifetime maximum
- Lifetime coverage
- Low group rates

Up to ONE MILLION DOLLARS of coverage for eligible medical expenses is available to you and your family—make sure it's there when you need it. This plan has been designed exclusively for you, the physician. Take advantage of this valuable offer. Call today or clip the coupon below and mail it in for more information!

Administered by:
Forrest T. Jones & Company, Inc.
Kansas City, MO

Underwritten by:
The Mutual Life Insurance
Company of New York

Contact your MSMA Service
Representative at:
National—800-821-7303
Missouri—800-892-7272
Kansas City—816-756-1060
ASK FOR JAN PACEY

CLIP THE COUPON AND MAIL TO:
Forrest T. Jones & Company, Inc.
P.O. Box 418131
Kansas City, MO 64141-9131
I'd like more information on the MSMA $1,000,000 Major Medical Plan.

Name ______________________________
Address ______________________________
City ______________________________
State ________________ ZIP __________

PRACTICE MANAGEMENT

by George S. Conomikes

Redesigning facilities usually should be preceded by redesigning the practice itself.

Designing your office

Recently I finished an assignment with an outstanding group of West Coast physicians. It had taken them five years to make up their minds about a new building. One of them said to me, "I hope to hell I never have to go through this again."

He doesn't know it, but he will. And, probably, so will you.

Three out of four physicians we come into contact with are not satisfied with their physical plant — front office and back office. And one out of every four practices is thinking of making a major facilities move: a new building, new offices, or redesigning of the facilities within the next year.

Typically these practices have gone through a recent change such as new partners, additional employees, or increased patient loads. Some have grown like Topsy. Employee is added to employee. Space is made to "stretch and fit."

When new space is considered, the initial plans usually duplicate the current setup, with more space. At that point the alert physicians become aware that their practice is in need of a restructuring involving more than the space. This is because they are not wholly satisfied with their present systems. Maybe it's the telephone-reception-appointment system; maybe it's financial and collection; always it's the question of how productive the physicians are themselves and how well they are utilizing their back office personnel.

So redesigning facilities usually should be preceded by redesigning the practice itself: the way patients are managed; the flow of activities — medical and financial; the utilization of personnel; and simplifying physicians' activities and tasks.

But let's assume that you have done your analysis and redesigned your practice. There is still a facility to be designed and built. What are the major pitfalls?

We have worked with many architects on medical office design. Their experiences tell us that there are three major mistakes to be avoided in the design and building of new medical offices:

Inadequate heating and cooling systems. Medical offices have many areas with different sets of traffic: entry and reception room; business office; aisles; exam rooms; consultation rooms; and labs and other service areas. It requires a sophisticated system so that one area is not significantly cooler (or hotter) than another. For example, each exam room, no matter how small, must be capable of having air exchange independent of the next room or hallway.

Therefore, have your lawyer write into any contract a guarantee of heating and cooling performance standards. If your job doesn't specify these standards, you could spend enormous sums of money to correct a faulty system and suffer embarrassing inconvenience. Comfort is the name of the game.

Too much noise. In order to maintain a nice, quiet atmosphere, thought should be given to soundproofing or noise dampening. I've been in offices where the heating-cooling

Continued on page 338

■ Practice Management

Continued from page 337

ductwork was a conduit of noise from one exam room to another. Embarrassing to say the least! Consider these noise minimizers:

- Insulated doors — *not* hollow doors — with good mountings. Sliding doors are not good.
- Carpeting. In the hallways, in the exam rooms, and in the reception rooms. The new acrylic fibers allow stains to be wiped off (wool carpeting is not so resistant). A good bet: order carpets with steel fibers woven in for antistatic purposes. A few physicians have even had their carpeting extended part way up the exam room walls to provide wainscoting.
- Drapes. Whether exam rooms have windows or not, sound absorption and a nice decorative touch are provided by floor to ceiling draperies.
- Telephone. Order chimes to replace the noisy buzzer system. Don't have phones in exam rooms. They are patient-doctor interrupters and add noises.

Insufficient business office space. We are seeing more and more paperwork processing, more medical records and more equipment in today's medical office. Any two-physician practice now employs a staff person for these purposes that it didn't need 10 years ago. A four-physician group more likely has had to augment its front office staff by even more.

The trend will continue, so make sure you design in an extra 100-300 feet of business space for future needs.

Rule of thumb: one employee requires approximately 100-150 sq. ft. for adequate working space. Each added employee in that work area needs approximately 65-75 sq. ft. of space. ■

Taking Giant Steps.

The smallest step can be a milestone . . . the simplest task, a major accomplishment. For individuals suffering from a physical disability, the day-to-day tasks we all take for granted can be major obstacles to independence and mobility.

At Dallas Rehabilitation Institute (DRI), our team of physicians, therapists and nurses can plan an individualized treatment program to help your patient regain as much function and independence as possible. With the most modern facilities and equipment, and therapists who are rehabilitation specialists, we offer a unique approach to rehabilitation.

Our comprehensive rehabilitation programs include:

- **spinal cord injury**
- **head injury**
- **stroke**
- **arthritis**
- **amputee**
- **spinal pain**

Call us to arrange a private tour of our facilities or to receive more information on the disease category rehabilitation programs offered at DRI.

DRI

Dallas Rehabilitation Institute
A subsidiary of Rehab Hospital Services Corporation
9713 Harry Hines Blvd.
Dallas, TX 75220-5441
(214) 358-6000

Special Article

Medical Progress and the U.S. Constitution: Two Centuries

By Philip C. Anderson, M.D.

Signed two hundred years ago in 1787, the wonderful U.S. Constitution has survived inept politics, a terrible civil war, transformation of the United States into the world's biggest industrial nation and many international crises continuing even today.

The document is more respected than ever. It is, "The most wonderful work ever struck off at a given time by the brain and purpose of man," to quote the British prime minister, William Gladstone. Literally tons of paper have been used to examine how the document can be, simultaneously, so specific and yet flexible enough to determine practical standards for excellence in governance through the world. My purpose is to illustrate how the enormous success of biomedicine in this nation over the same 200 years is linked to the triumph of stable and inspirational democratic government under the U.S. Constitution.

Editor's note: Dr. Anderson is Chairman and Professor of Dermatology at the University of Missouri-Columbia. Dr. Anderson was appointed by Gov. John Ashcroft to serve as a commissioner on the "We the People" Bicentennial Commission. The Missouri commission will coordinate the celebration of the Constitution beginning with the 1987 Veiled Prophet Fair in St. Louis July 4th weekend. Each state has a "We the People" organization; the Constitution celebrations will continue through 1991.

Scientists, who idealize their "search for truth," mostly are offended to learn that their profession would collapse without sustained indulgence from their government. Historians know free science was easily suppressed in Nazi Germany, China, Iran and elsewhere. Our U.S. government has chosen to protect free publication and to finance both public education in science and an elaborate community for research. Science can be a very nasty business, asking obnoxious questions, contradicting authorities of church or state, demanding innovation and upsetting traditions. Historically, a natural conflict can be found between scientists and their society. Galileo fighting his church is only one well-known example. All tyrants must suppress science and scientists, as the Soviet Union does still, because tyrannies do not abide any disbelief, contradiction or true skeptical inquiry. Excellent science is especially fragile. Without sustained deliberate protection, organized science soon is lost and without excellent science, the biomedical revolution of the last two centuries is lost also.

Today, the U.S. is the leader and principal benefactor to all the world in applied biomedicine. Through our medical schools and research centers, especially through the National Institutes of Health, we have given freely of the expertise and often the facilities necessary to modernize the medical systems of all people, usually without any concern for their politics.

As we develop a list including asepsis, anaesthesia, antibiotics,

Continued on page 340

■ U.S. Constitution

Continued from page 340

antipsychotic drugs, steroids, vitamins, artificial organs, electrolyte balance, dialysis, x-ray pictures, cancer chemotherapy, disease-vector control and immunization, we realize the diversity of great discoveries in recent medicine, all derived from the free development of our sciences. Without the consent of the well-governed public, for example in immunization programs or in the limitation of epidemic tuberculosis, even simple medical programs fail. Without public order, prosperity and tolerance for innovation, excellent hospitals and universities cannot be built or sustained. Without the admirable optimism and generous affirmation of human values of our people, inherent in the U.S. Constitution, our enormous gifts to international medicine would obtain neither funding nor staffing.

In summary, our wonderful successes in medicine are built on a great idealistic example of government, expressed in very practical terms in the U.S. Constitution which itself has 200 years of success.

May we sustain it another 200 years.

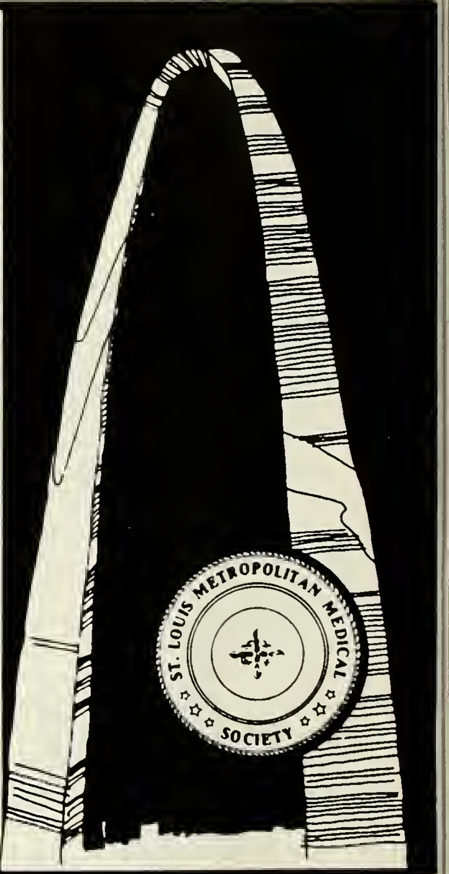
Missouri physicians wishing to celebrate by studying the U.S. Constitution can write to: P. C. Anderson, M.D., Chairman and Professor, Department of Dermatology, University of Missouri Medical Center, M173, One Hospital Drive, Columbia, MO 65212. ■

MEDICINE'S
CHANGING
ENVIRONMENT

Gateway '87
Medical Exposition & Symposium
November 11 & 12, 1987
CERVANTES CONVENTION CENTER
St. Louis, Missouri

Sponsored by the
St. Louis Metropolitan
Medical Society

For more information, contact: Robert Donnell Productions 1-800-243-9774


ST. LOUIS METROPOLITAN MEDICAL SOCIETY

Update

Missouri's Changing Health Care System

Robert G. Harmon, M.D., M.P.H.

The American health care system is a patchwork of autonomous subsystems. Hospitals, physician offices, freestanding clinics, nursing homes, local health departments, teaching institutions, mental health facilities, Medicaid, Medicare, and private insurance reimbursement systems are all elements of an ever-changing industry, evolving in response to financial, demographic, technological and social influences.

This diverse collection forms one of the largest and fastest growing industries in the nation. In 1984, national health care expenditures totaled $387.4 billion — 10.6% of the gross national product. Health-related expenditures in Missouri amounted to $7.7 billion in 1985, making health care the fifth largest industry in the state. While we maintain that health care is a right, the cost of treatment continues to demand more and more of the nation's limited resources.

As planners and providers, we must assist decision makers within the system in improving the allocation of resources to ensure efficient, yet equitable, delivery of services. Our challenge by the year 2000 is to anticipate alternatives and tradeoffs in order to secure adequate, affordable health care for the citizens of Missouri.

Robert G. Harmon, M.D., M.P.H., is director of the Missouri Department of Health. In this special update, Dr. Harmon presents his views on trends and changes in Missouri's health care system. His projections reflect the goals outlined in the Department's "Plan for the Year 2000," published earlier this year.

Population Trends

Like the nation as a whole, Missouri is experiencing a significant increase in its older adult population. In 1980, 11.3% of the nation was 65 years old or older, compared to 13.2% in Missouri. By 1984, this group in Missouri had increased to 13.6% or 681,000 people. The proportion of the elderly population over 75 is of particular concern. It is expected that this group will grow by more than 63% between 1980 and 2000. It faces the highest potential need for institutional services. By the year 2000, more than 350,000 Missourians, or 46.4% of our elderly, will be in this higher age bracket. The anticipated life expectancies will be 73 years for men and 81 years for women, an increase of almost four years compared to 1986 (Fig 1).

Our challenge is to improve the quality of life for these older Missourians. We must seek to prevent the chronic disorders which typically lead to a permanent disruption in personal and social behavior patterns. Long-term care must combine medical services and social services so that our elderly can remain active and productive.

The baby boom has also motivated many changes in the health care system. Health care providers responded to the boom with increased specialization in child care, and more hospitals were built to meet the needs of a growing population. Today we respond to this population's needs with increased regulation, early intervention, and attempts to improve emergency care. By the end of this century, this group will be 40-59 years old and will comprise 26% of Missouri's population — 1.4 million people.

One critical issue affecting this population is the mounting onslaught of Acquired Immune Deficiency Syndrome — AIDS. It has been projected using the Centers for Disease Control model that 1,760 new cases will be re-

Figure 1
Population Trends in Missouri

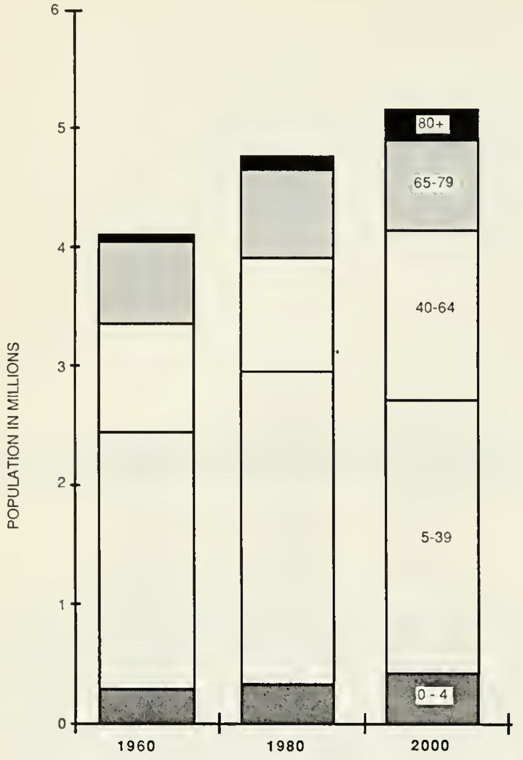


Table 1

Missouri Public Hospitals Which Have Changed Ownership Since January 1, 1980

Lafayette Regional Health Center, Lexington	(49 beds)
Sullivan Community Hospital, Sullivan	(46 beds)
Callaway Memorial Hospital, Fulton	(47 beds)
Twin Rivers Regional Medical Center, Kennett	(116 beds)
Reynolds County Memorial Hospital, Ellington	(29 beds)
Scotland County Memorial Hospital, Memphis	(40 beds)
St. Louis Regional Hospital, St. Louis	(300 beds)
Pulaski County Memorial Hospital, Waynesville	(50 beds)
Hedrick Medical Center, Chillicothe	(80 beds)

Table 2

Hospitals Which Have Closed Since January 1, 1980

Downtown Hospital, Kansas City	(40 beds)
Dr. M. L. King Memorial Hospital, Kansas City	(100 beds)
Robert Koch Hospital, St. Louis	(465 beds)
Mercer Hospital, Princeton	(16 beds)
Plaza Hospital, Kansas City	(10 beds)
St. Louis City Hospital, St. Louis	(530 beds)
Windsor Hospital District, Windsor	(26 beds)
Jane Chinn Memorial Hospital, Webb City	(46 beds)
Kelling Hospital, Waverly	(54 beds)
St. Louis County Hospital, St. Louis	(200 beds)
St. Mary on the Mount, St. Louis	(142 beds)
Poplar Bluff Hospital, Poplar Bluff	(60 beds)

ported in Missouri in 1991, making a total of 2,800 cumulative cases reported in Missouri since 1982, with a mortality rate of approximately 50%.

Our health care system must meet the needs of a more affluent, health conscious and urban society. To do so, we must assess how health care is actually delivered in Missouri and promote effective systems that will serve the population.

Provider Systems

Hospitals

The modern hospital still plays a dominant role in the delivery of patient care. However, the proliferation of medical technology and the transition to prospective reimbursement systems have resulted in fewer patient days, lower occupancy rates, and a reduction in the average length of stay (Fig 2).

This deinstitutionalization is somewhat similar to that seen in tuberculosis sanatoriums and mental hospitals during the past two decades. In hospitals, however, the number of beds is *increasing* rather than *decreasing*.

Unfortunately, a growing number of public and rural hospitals have had difficulty coping with these changes. These hospitals are experiencing management takeovers by private proprietary, not-for-profit and other organizations (Table 1). St. Louis City and County hospitals, for example, were recently replaced by the not-for-profit St. Louis Regional Health Care Corporation.

This profit or "bottom line" orientation may be good for corporate efficiency and competition, but it can be bad for many communities and for those patients who can't afford to pay. The system is clearly moving to a competitive, profit-oriented mode. Many hospitals are now either teetering on the edge of financial ruin or are being forced to close their doors permanently (Table 2).

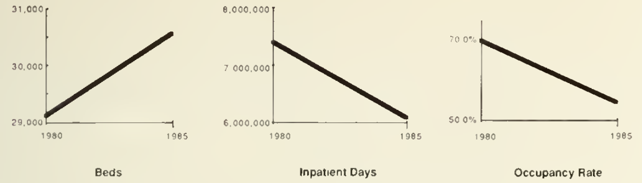
We find that it is largely the proprietary chains that are developing hospitals. This is also true of the nursing home industry. Consequently, services for some segments of the population are often unaffordable and poorly distributed. The evolution of technology, reimbursement systems and public demand has led to the development of free-standing therapeutic and diagnostic clinics. Hospitals have also joined in the investment in alternative delivery systems.

Hospitals are clearly diversifying to maintain their position in the health care system. Notice their advertisements. There is a broad spectrum of new services, including substance abuse treatment, health education programs, air ambulance service and more.

Home Health Care Agencies

Home health care agencies are one of the fastest growing and most competitive components of the health care system. The number of home health agencies in Missouri has more than doubled

Figure 2
Changes in Hospitalization in Missouri: 1980 - 1985



— from 82 in 1982 to 209 in 1985. These are usually owned by hospitals or for-profit organizations (Fig 3). In 1981, a change in the Medicare laws authorized reimbursement to proprietary agencies. Recently, declining inpatient utilization of hospitals has encouraged, if not forced, hospitals to broaden their scope of services beyond traditional roles. In Missouri we are seeing more agencies serving larger geographic areas.

The growth of the home health agencies has benefited residents by providing more services, especially to the aging population and residents of rural counties. Despite the benefits, the cost to taxpayers has risen, with Missouri Medicaid payments surpassing $3 million for home health care in fiscal 1985 alone. Increased investment by private organizations has been competitive and sometimes detrimental to the local health departments, which have typically served the medically indigent population. The market is becoming saturated, and many agenices will soon be targets for consolidation into larger organizations.

Adult Day Care Programs

Adult day care programs are designed to meet the health and social needs of physically and mentally impaired adults. They provide a protective and therapeutic environment and offer care to patients when institutionalization is not yet needed. They also provide transitional support between hospitalization and resumption of independent living. In May 1986, there were 14 adult day care programs and five proposed programs in the state. Growth in this area should continue well into the next century.

Hospice

Hospice organizations have developed to help patients and their families cope with terminal illness. The hospice concept is mainly a home-care program, emphasizing control of symptoms for terminally-ill patients and provision of emotional support for family members. There are 25 hospice groups in the state.

Home health care, adult day care and hospice have grown largely as a result of the "graying of America." Coordination of these services throughout the state in the proprietary and not-for-profit arenas should be seriously considered.

Local Health Departments

With the growth of private, entrepreneurial, for-profit services for those who can afford to pay, an obvious question is "What role will public health play in the delivery of services in Missouri?"

Because private services may not be affordable or accessible, especially to Missouri's rural population, local health departments will continue to play a major role in the delivery of health services.

The Midwest Health Policy and Planning Association, a five-state group organized to identify and study Midwestern health issues, addressed rural health concerns in its *Rural Conference Report*. The association recommended that rural county health departments develop innovative, creative and assertive marketing strategies, orient themselves toward consolidation to prevent duplication of services, and seek new and creative sources of funding.

A model for this new outlook is the Northwest Missouri Health Consortium, a 12-county cooperative association of providers headquartered in St. Joseph, which share services and referrals. They are seeking to meet the medical needs of consumers and rural practitioners.

There are 110 local public health units in Missouri, most of which are underfunded and unable to reach their full potential. Still, these units are very cost-effective. As part of the public health safety net, they should be strengthened and expanded as an integral part of the indigent care system.

Prepaid Plans

In the 1970s and '80s, we have seen consumers become increasingly aware of the need for preventive medicine. Consequently, third-party payors have been motivated by a new philosophy: pay providers to keep people healthy. Specifically, the approach is to provide comprehensive health benefits for a fixed annual fee. The first ventures of this type were the Roos-Loos Medical Group in 1929 and the better-known Kaiser-Permanente Plan of 1939. It was not until 1970 that the term "health maintenance organization" (HMO) was used for these delivery systems. Although HMOs vary in size and organizational structure, there are some common elements:

- A defined population, voluntarily enrolled
- A contractual agreement for the provision of a stated range of services
- A fixed periodic payment independent of actual utilization
- Assumption of financial risk by the provider

The HMO can be a highly integrated, centralized prepaid group practice or have a loose, decentralized structure. Inde-

Figure 3
Missouri Home Health Agencies by Ownership - 1985

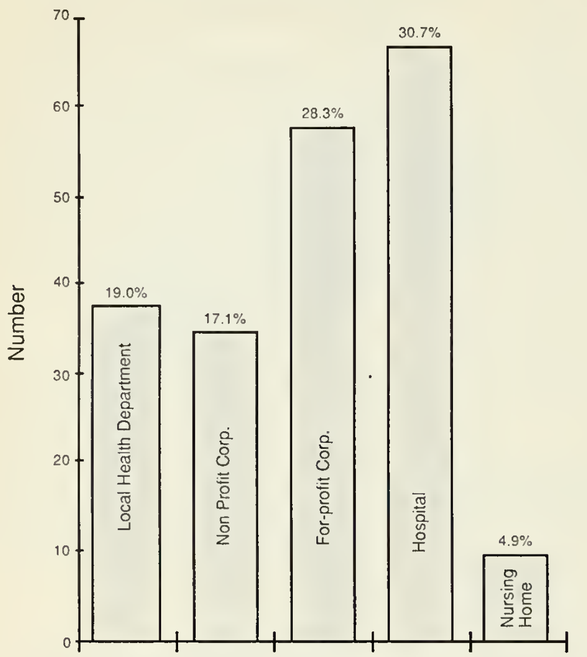


Table 3

Health Maintenance Organizations and Individual Practice Associations

HMO & IPA Names	*Location*
• CIGNA Healthplan	St. Louis
• General American	St. Louis
• Group Health Plan	St. Louis
• HealthCare Network	St. Louis
• Health Care Plus	Kansas City
• Health Plan of Mid-America	Kansas City
• Individual Practice Program	St. Louis
• Kaiser Foundation Health Plan	Kansas City
• Maxicare Health Plan of Missouri	St. Ann
• Physicians Health Plan of Greater St. Louis	St. Louis
• Prime Health	Kansas City
• Prudential Health Care Plan	Creve Coeur
• Sanus Health Plan	St. Louis
• St. Louis Labor Health Institute	St. Louis
• Total Health Care	Kansas City

pendent Practice Associations (IPAs) are a type of HMO that contracts with a number of individual physicians or groups for a fixed cost over a period of time. These physicians continue to use their own private offices and treat patients on a fee-for-service basis with retrospective adjustments based on financial performance of the HMO and the physician.

Research has shown HMOs can reduce hospitalization, surgery, and other utilization rates by up to half. An improved benefit package can therefore be offered to enrollees at an attractive price. Critics point to reduced freedom of choice concerns.

There is no doubt that HMOs, in their many variations, are growing. In 1972 when the HMO act became law, allowing funds to be made available for their development, there were only 50 in the country. By 1985 the number had grown to more than 480 serving 22 million Americans, or 9% of the population. In its February 1986 report, the Missouri State Medical Association listed 15 different prepaid plans in the state, serving 500,000 enrollees — about 10% of the populations (Table 3).

It is projected that one-third of the national population will be enrolled in HMOs by the year 2000. Some experts predict that only 10 to 14 large corporate chains will ultimately dominate the HMO market. Organized medicine is concerned about this trend because it means a shrinking market share for fee-for-service, private practice medicine.

Prospective reimbursement for Medicaid patients is a national trend. By 1985 there were 91 contracts in 21 states serving 592,000 Medicaid enrollees, or 2.7% of the eligible population. Starting in 1984, public funds have been channeled into prepaid plans in Missouri with some degree of success. In one such demonstration project, the Department of Social Services/Division of Medical Services' Medicaid Program implemented a "Managed Health Care Delivery System" in Jackson County. All 26,000 Aid for Dependent Children (AFDC) recipients have been enrolled in a prepaid health plan or with a primary care physician sponsor. Early reports indicate that this program has been well received and reasonably successful. Expansion into the St. Louis area is likely.

Likewise, prepaid Medicare arrangements have been implemented in 31 other states. In these states, 2.5% of the total Medicare recipients were in 132 prepaid plans (74% at "risk"), representing nearly 850,000 people. Growth is also very likely here. Prepaid delivery systems can assure legal, fiscal, public and professional accountability. There is a definite trend toward further development of such systems in Missouri in the years ahead. The challenge will be to promote the positive aspects of prepaid care (expanded benefits, reduction of unnecessary services) while preventing the negative (financial insolvency, denied services).

Financing Health Care

Today state and federal expenditures for health care represent a multi-billion dollar commitment. In 1985 state expenditures for health care exceeded $1.3 billion, or about 18% of the $7.7 billion in total health expenditures in Missouri for that year (Fig 4). Since 1966, the Medicaid and Medicare programs have been the driving force in health care financing. By 1985, Missouri Medicare payments had exceeded $1.6 billion annually, and the Missouri

Medicaid program had reached almost $590 million.

Despite the enormous amount of government funds in these programs and the endurance of private insurance, there remains a critical gap in the coverage of medical expenses. The Missouri Indigent Health Care Study, a 1986 study commissioned by the Missouri General Assembly, indicated that there are 617,000 uninsured people and almost 400,000 underinsured people in the state. Thus, medical expenses represent a serious financial risk for more than 20% of all Missourians (Fig 5).

Self-insurance by employers is increasing. Non-profit insurance arrangements like Blue Cross/Blue Shield are changing with the times. They are developing prepaid plans and other ventures. They are also at some risk of losing their non-profit status if they refuse coverage too often. For-profit, commercial insurance corporations are diversifying rapidly into HMOs as the fee-for-service market shrinks.

There must be a concerted effort between the private and public sectors to assure affordable medical care for the entire population. To the extent that cooperation exists, the concept of pooling patients, risks, and benefit plans will be another important element in the future health care system. It is important that we emphasize the continuation of public/private partnerships to bridge the gap between public assistance and private insurance.

Some health care analysts project that only eight to 10 major corporations will eventually dominate the hospital and nursing home industry in the years ahead. These possibilities raise serious questions regarding adequate access to care, especially in economically depressed areas.

Manpower Trends

Physicians

From 1980 to 1985 Missouri experienced a 7.5% increase in licensed physicians, from 8,838 to 9,502. During this time period, the state's population increased by only 2.4%. If this trend continues, Missouri will have more than 11,750 physicians by the turn of the century. This anticipated surplus of doctors will not solve the problem of inadequate medical services, however. As physicians gravitate towards affluent urban areas, there will be a continued, growing need for doctors in economically depressed areas.

At present, Missouri has four medical schools and two osteopathic schools, from which came 43% of all physicians currently practicing in the state. Though 56% of physicians are trained outside the state, Missouri schools will continue to be an important source for physicians.

Registered Nurses

Missouri has also seen an increase in the number of registered nurses in the past five years. Nurses comprise the largest health profession in the state. In 1985, there were 37,342 licensed nurses, a 31% increase since 1980. By the year 2000, it is projected that there will be more than 68,000 nurses in the state. Like physicians, registered nurses work in hospitals and are more concentrated in the urban areas.

Figure 4

Departmental Health-Related Expenditures by Missouri Government for Fiscal Year 1985

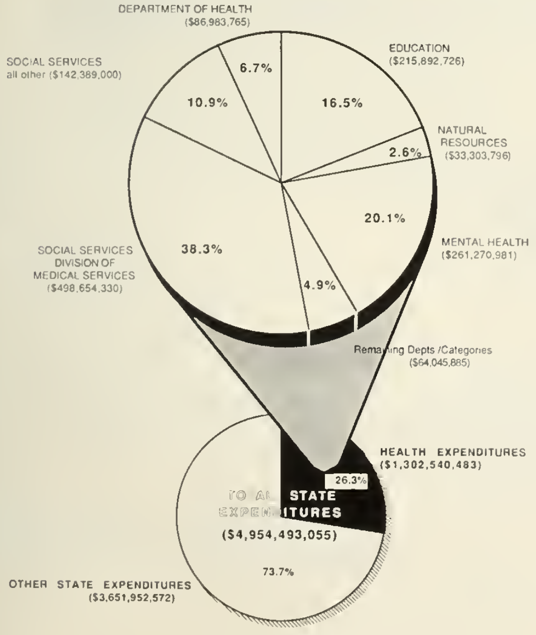
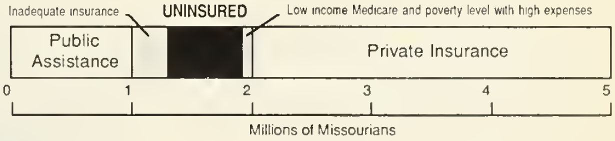


Figure 5
Missouri's 'Insurance Gap'



Unlike physicians, more than two-thirds of Missouri's active nurses received their professional education within the state. Because of the rapid advancement of technology and professional demand, there will be a continuous trend toward higher academic levels for Missouri RNs.

In response to the uneven distribution of physicians, the number of nurse practitioners and physician assistants will continue to slowly increase not only in Missouri but across the nation. The use of these physician extenders may become an important element in the Missouri health care delivery system by the year 2000, particularly in rural areas.

Conclusion

Health care in Missouri and the United States will embark on a critical path in the years ahead. Analysis of the strengths, weaknesses, and opportunities in both the public and private sectors will also continue to grow in importance. Dynamic planning and analysis is needed to anticipate trends and respond accordingly.

A wide variety of trends is developing in our health care system. In response, we must develop long range plans in the private and public sector. Accordingly, the Governor has appointed the Missouri Opportunity 2000 Commission. Later this year, it will be making recommendations on health care and other issues for the year 2000.

The Missouri Department of Health published its Year 2000 Plan in February 1987. The document outlines the department's goals and objectives for the next 13 years.

In my view, these recommendations will need to be translated into annual action steps by all of Missouri's health care system participants if adequate progress is to be made. ■

Promote rehabilitation with SSM Rehab Water Works℠

Pool therapy for the physically disabled

SSM Rehab's comprehensive pool therapy program capitalizes on the unique supportive properties of water to hasten the recovery of victims of serious injury or physical impairment.

Designed and administered by professional therapists, this program enables the recovering patient to regain physical and psychological health more quickly than would otherwise be possible.

The program is planned for each individual patient in consultation with the patient's physician, and therapy is provided only on written approval of the physician. (Outpatient therapy is available.)

For details, please call 314/862-9162 or write our Physical Therapy Department.

SSM
REHABILITATION
INSTITUTE

...where the potential of tomorrow is realized today

St. Joseph Health Center/St. Charles, MO 63301 • St. Mary's Health Center/St. Louis, MO 63117

An Equal Opportunity/Affirmative Action Employer · Services provided on a non-discriminatory basis
A MEMBER OF THE SSM HEALTH CARE SYSTEM

Could you use some help with your claims paperwork?

Put SUPERMIKE to work for you and join over 600 physicians already submitting Medicare Part B and Missouri Medicaid claims via electronic claim transmission.

SUPERMIKE is a software package that will reduce your claims paperwork and processing delays because it lets you know when a claim is incomplete before you send it.

With SUPERMIKE, all your claims go the same way, the same day, to the same place. General American/Medicare's Electronic Media Claims (EMC) Department will process your Medicare claims and forward your Medicaid claims to the state on a magnetic tape.

Technology was never so affordable—SUPERMIKE is only $49.95!

For more information, detach and mail this coupon:

Medicare Part B / General American

Linda Benso
Medicare/EMC, FO-1
General American Life Insurance Company
P.O. Box 505
St. Louis, MO 63166

MM7

Please send me your free brochure on SUPERMIKE, the automated claim transmission service for Missouri Medicare Part B and Medicaid.

Name of Physician: __________
Address: __________
City: __________ State: __________ Zip: __________
Specialty: __________ Phone: __________
Person to Contact: __________ Best Time: __________

129th Annual Convention

MISSOURI STATE MEDICAL CONVENTION

House of Delegates

Tan-Tar-A Resort
Lake of the Ozarks
April 2-5, 1987

FIRST SESSION

The First Session of the MSMA House of Delegates was called to order at 10:00 a.m., Thursday, April 2, 1987 by Speaker of the House Arlen D. Winsky. The following officers and delegates were present during the 129th Annual Convention:

OFFICERS

President	H. Peter Ekern, *Mexico*
President-Elect	L. G. Piepergerdes, *Kansas City*
Vice-President	Hugh E. Stephenson, Jr., *Columbia*
Secretary	Berry Ivy, *Springfield*
Treasurer	Jay Meyer, *St. Louis*
Speaker of the House	Arlen D. Winsky, *Springfield*
Vice-Speaker of the House	Jo-Ellyn M. Ryall, *St. Louis*
Immediate Past-President	Walter A. German, *Springfield*

COUNCILORS

1st District	Gary A. Dyer, *St. Joseph*
2nd District	Robert V. Tompson, *Moberly*
3rd District	Thomas J. Cooper, *St. Louis*
3rd District	William H. Huffaker, *St. Louis*
3rd District	Carol F. Williams, *St. Louis*
3rd District	David Wilkinson, *St. Louis*
3rd District	J. Otto Lottes, *St. Louis*
3rd District	Frederick Peterson, *St. Louis*
4th District	William R. Richardson, *Union*
5th District	Kenneth L. Rall, *Columbia*
5th District	Alan L. Braun, *Jefferson City*
6th District	A. J. Campbell, *Sedalia*
7th District	Dorothy D. Reister, *Shawnee Mission, KS*
7th District	Frederick Hahn, *Kansas City*
7th District	Raymond Caffrey, *Independence*
7th District	Robert T. Gibbons, Jr., *Prairie Village, KS*
8th District	Francis M. Corry, *Springfield*
8th District	Marvin A. Singleton, *Joplin*
9th District	O. Martin Hasek, *Mountain Grove*
10th District	Melvin C. Kasten, *Cape Girardeau*
Student Councilor	Bradley Freilich, *Kansas City*

VICE COUNCILORS

2nd District	Carl R. Kruse, *Palmyra*
3rd District	Arturo Montes, *Florissant*
4th District	J. Michael Conoyer, *St. Peters*
5th District	Jerry Murrell, *Columbia*
6th District	Jerry Meyer, *Concordia*
8th District	David W. Hall, *Rogersville*
9th District	Thomas R. Stubbs, *West Plains*
10th District	William C. Shell, *Sikeston*
Student	Dean Blakeley, *Columbia*

DELEGATES

First District

Buchanan	Carlos E. Moya, *St. Joseph*
Buchanan	Larry Pifer, *St. Joseph*
Buchanan	Donald E. Sklenar, *St. Joseph*
Buchanan	Eugene C. Wolanski, *St. Joseph*
Clay-Platte	Donald Fakhoury, *Kansas City*
Clay-Platte	Mark E. Gordon, *Kansas City*
Clay-Platte	Donald E. Kuenzi, *Kansas City*
Clay-Platte	Stephen McCray, *Gladstone*
Clay-Platte	Weldon L. Sportsman, *Kansas City*
Clay-Platte	Stephen Vilmer, *Kansas City*
Grand River	John R. Dixon, *Brookfield*
Grand River	Merriam Gerhardt, *Bethany*
Grand River	Edward E. Nixon, *Gallatin*
Grand River	Floyd A. Santner, *Marceline*
Northwest	Patrick Harr, *Maryville*

Second District

Chariton-Macon-Monroe-Randolph	James E. Campbell, *Macon*
Chariton-Macon-Monroe-Randolph	C. C. Cohrs, *Moberly*
Chariton-Macon-Monroe-Randolph	J. W. Fleming, *Moberly*
Northeast Missouri	H. P. Jayanandaiah, *Hannibal*
Northeast Missouri	Edward Plowman, *Hannibal*
Northeast Missouri	Carl Kruse, *Palmyra*
Pike	Lawrence Stuerman, *Louisiana*

Third District

St. Louis	Luis Anglo, *St. Louis*
St. Louis	William Harold Bailey, *St. Louis*
St. Louis	Vernon H. Balster, *St. Louis*
St. Louis	M. Roman Banton, *St. Louis*
St. Louis	William C. Banton II, *St. Louis*
St. Louis	Gerald N. Bart, *St. Louis*
St. Louis	Ralph L. Biddy, *St. Louis*
St. Louis	George M. Bohigian, *St. Louis*
St. Louis	Saul Boyarsky, *St. Louis*
St. Louis	Edmond B. Cabbabe, *St. Louis*
St. Louis	N. K. Datta, *St. Louis*
St. Louis	James W. Debnam, Jr., *St. Louis*
St. Louis	Jonathan D. Dehner, *St. Louis*
St. Louis	Donald J. Dickler, *St. Louis*
St. Louis	Peter Diemer, *St. Louis*
St. Louis	Joseph P. Drozda, *St. Louis*

St. Louis	Richard H. Fallon, *St. Louis*
St. Louis	Wilfrido C. Feliciano, *St. Louis*
St. Louis	George D. Flanigan, Jr., *St. Louis*
St. Louis	Mariano N. Floro, *St. Louis*
St. Louis	Joseph Gagliardo, *St. Louis*
St. Louis	Andrew E. Galakatos, *St. Louis*
St. Louis	August W. Geise, *St. Louis*
St. Louis	Richard J. Gimpelson, *St. Louis*
St. Louis	Richard E. Graviss, *St. Louis*
St. Louis	Thomas P. Hanley, *St. Louis*
St. Louis	Jack Kayes, *St. Louis*
St. Louis	John H. Kissel, *St. Louis*
St. Louis	Alice D. Kitchen, *St. Louis*
St. Louis	Jerold J. Kreisman, *St. Louis*
St. Louis	John M. Laird, *St. Louis*
St. Louis	Francis X. Lieb, *St. Louis*
St. Louis	Jerome L. L'Ecuyer, *St. Louis*
St. Louis	Bruce L. McClennan, *St. Louis*
St. Louis	Robert R. MacDonald, Jr., *St. Louis*
St. Louis	Otakar Machek, *St. Louis*
St. Louis	Maria E. Manion, *St. Louis*
St. Louis	John F. Mantovani, *St. Louis*
St. Louis	Jay Meyer, *St. Louis*
St. Louis	Arturo C. Montes, *St. Louis*
St. Louis	Nathaniel H. Murdock, *St. Louis*
St. Louis	Frank Ostapowicz, *St. Louis*
St. Louis	David E. Perkings, *St. Louis*
St. Louis	Paul J. Petruska, *St. Louis*
St. Louis	Richard T. Quick, *St. Louis*
St. Louis	Robert H. Ramsey, *St. Louis*
St. Louis	James C. Redington, *St. Louis*
St. Louis	David M. Reisler, *St. Louis*
St. Louis	Susan Reynolds, *St. Louis*
St. Louis	Hubert A. Ritter, *St. Louis*
St. Louis	W. P. Schuessler, *St. Louis*
St. Louis	Melvin M. Schwartz, *St. Louis*
St. Louis	John B. Shields, *St. Louis*
St. Louis	Daniel O'Sullivan, *St. Louis*
St. Louis	David L. Simon, *St. Louis*
St. Louis	Dolores R. Tucker, *St. Louis*
St. Louis	Timothy T. Turner, *St. Louis*
St. Louis	Bruce J. Walz, *St. Louis*
St. Louis	Joseph W. West, *St. Louis*
St. Louis	Newton B. White, *St. Louis*
St. Louis	Miles Whitener, *St. Louis*
St. Louis	James M. Whittico, *St. Louis*

Fourth District

Franklin-Gasconade-Warren	Sam Farrell, *Washington*
Franklin-Gasconade-Warren	John J. O'Connor, *Warrenton*
Franklin-Gasconade-Warren	James T. Shaw, *Hermann*
St. Charles-Lincoln	J. Michael Conoyer, *St. Peters*
St. Charles-Lincoln	Robert Cusworth, *St. Charles*
St. Charles-Lincoln	F. Delbert Moeller, *O'Fallon*
St. Charles-Lincoln	Michaele M. Penkoske, *St. Charles*
St. Charles-Lincoln	Brian Stufflebam, *St. Peters*

Fifth District

Audrain	Joseph A. Corrado, *Mexico*
Audrain	Steve Taylor, *Mexico*
Boone	Jeanette Akhter, *Columbia*
Boone	William C. Allen, *Columbia*
Boone	Wm. Wilson Beckett, *Columbia*
Boone	William D. Bradshaw, *Columbia*
Boone	Diane Brukardt, *Columbia*
Boone	Milamari Cunningham, *Columbia*
Boone	George W. Eggers, *Columbia*
Boone	Richard Heimburger, *Columbia*
Boone	David M. Klachko, *Columbia*
Boone	Jerry Murrell, *Columbia*
Boone	Georgia Nolph, *Columbia*
Boone	Carl Pearman, *Columbia*
Boone	Michael C. Perry, *Columbia*
Boone	James A. Roller, *Columbia*
Boone	Hugh E. Stephenson, Jr., *Columbia*
Boone	Robert M. Thomas, *Columbia*
Cole	Charles W. Cooper, *Jefferson City*
Cole	Curtis Cox, *Jefferson City*
Cole	Rebecca Lueckenhoff, *Jefferson City*
Cole	James Rae, *Jefferson City*
Cole	Robert Wankum, *Jefferson City*
Callaway	Vernon B. Jackson, *Fulton*
Lake of the Ozarks	Chris Fotopoulos, *Osage Beach*
Lake of the Ozarks	Melvin R. Hayden, *Camdenton*
Lake of the Ozarks	Ruth Kauffman, *Versailles*

Sixth District

Henry	Gus Wetzel, *Clinton*
Lafayette-Ray	Jerry L. Meyer, *Concordia*
Pettis	William R. Cole, *Sedalia*
Saline	B. F. Knipschild, *Marshall*
West Central	Warren Lovinger, *Nevada*
West Central	Candice A. Moore, *Nevada*
West Central	Ted Moore, *Nevada*
West Central	William A. Turner, *Nevada*

Seventh District

Metropolitan Med. Society of Greater Kansas City (MMSGKC)	Jennifer Ashby, *Kansas City*
(MMSGKC)	Keith W. Ashcraft, *Kansas City*
(MMSGKC)	Grant Bever, *Kansas City*
(MMSGKC)	Douglas B. Bogart, *Kansas City*
(MMSGKC)	Alfred A. Caruso, *Kansas City*
(MMSGKC)	William F. Case, *Kansas City*
(MMSGKC)	Herman J. Hausheer, *Kansas City*
(MMSGKC)	George P. Hoech, *Kansas City*
(MMSGKC)	Lloyd A. Hollinger, *Kansas City*
(MMSGKC)	Marvin Kahn, *Kansas City*
(MMSGKC)	Mark Martin, *Kansas City*
(MMSGKC)	William J. Medlicott, *Kansas City*
(MMSGKC)	Richard B. Michelson, *Kansas City*
(MMSGKC)	John D. Mitchell, *Kansas City*
(MMSGKC)	Donald A. Potts, *Kansas City*
(MMSGKC)	Patrick K. Price, *Kansas City*
(MMSGKC)	Andrew J. Rhodes, *Kansas City*
(MMSGKC)	Lawrence A. Rues, *Kansas City*
(MMSGKC)	Wilbur B. Spalding, Jr., *Kansas City*
(MMSGKC)	George E. Volk, *Kansas City*

Eighth District

Dallas-Hickory-Polk-Dade	James Molchan, *Bolivar*
Greene	Charles Ash, *Springfield*
Greene	Jack Bagby, *Springfield*
Greene	Al Bonebrake, *Springfield*
Greene	Michael Clarke, *Springfield*
Greene	Darrel Domann, *Springfield*
Greene	Michael Gentry, *Springfield*
Greene	Charles H'Doubler, *Springfield*
Greene	David W. Hall, *Springfield*
Greene	Duane Hellam, *Springfield*
Greene	H. B. Ivy, *Springfield*

Greene	Richard Kissell, *Springfield*
Greene	Norman Knowlton, *Springfield*
Greene	Hal Lurie, *Springfield*
Greene	Stanley S. Peterson, *Springfield*
Greene	K. Dewayne Piker, *Springfield*
Greene	Arteso Raborar, *Springfield*
Greene	Gary Robinson, *Springfield*
Greene	Dan T. Sullivan, *Springfield*
Greene	Norman Wall, *Springfield*
Jasper	Robert B. Brigden, *Joplin*
Jasper	Robert Hatelid, *Joplin*
Jasper	Clarence Martin, *Joplin*
Jasper	Kelly Moore, *Joplin*
Jasper	Thomas Moore, *Joplin*
Jasper	Howard Roberts, *Joplin*
Ozarks	Paul B. Anderson, *Neosho*
Ozarks	Russell White, *Aurora*
Tri-Lakes	Larry Huffman, *Branson*
Tri-Lakes	Charles Wood, *Hollister*
Webster	Thomas Macdonnell, *Marshfield*

Ninth District

Mid-Missouri	Hugh Bartlett, *Rolla*
Mid-Missouri	Robert M. Huster, *Rolla*
South Central	David Barbe, *Mountain Grove*
South Central	James Hasek, *Mountain Grove*
South Central	L. G. Mayuga, *Cabool*
South Central	Michael Moore, *West Plains*
South Central	Claude Smith, *Willow Springs*

Tenth District

Butler-Wayne-Ripley-Carter	Kirby Turner, *Poplar Bluff*
Cape Girardeau	Mike J. Brown, *Cape Girardeau*
Cape Girardeau	Gordon E. Eller, *Cape Girardeau*
Cape Girardeau	Theodore J. Glenn, *Cape Girardeau*
Cape Girardeau	Mark C. Kasten, *Cape Girardeau*
Cape Girardeau	Scot G. Pringle, *Cape Girardeau*
Cape Girardeau	T. C. Sparkman, *Cape Girardeau*
Cape Girardeau	Allen L. Spitler, *Cape Girardeau*
Cape Girardeau	Ronald Swinfard, *Cape Girardeau*
Dunklin	Nicholas Robinson, *Kennett*
Jefferson	Ben Albano, *Crystal City*
Jefferson	Martha Reed, *Hillsboro*
Mineral	Robert Huckstep, *Farmington*
Mineral	Vinai Raksakulthai, *Fredericktown*
Mineral	Rustico Simpelo, *Potosi*
Perry-Ste. Genevieve	D. Limpiphiphatn, *Perryville*
SEMO	Robert L. Frazier, *Sikeston*
SEMO	Wm. Shell, *Sikeston*

Past-Presidents

Richard V. Bradley, *St. Louis*
R. Allen Chandler, *Kansas City*
Walter A. German, *Springfield*
E. T. Hansbrough, *Poplar Bluff*
John N. Martin, *St. Joseph*
Howard J. McAlhany, *Springfield*
E. A. Stricker, *St. James*
Byron M. Stuart, *Boonville*
Ronald A. Youmans, *Kansas City*

Student Delegates

Mr. Carlos Buznego, *Washington University, St. Louis*
Mr. Kent Cooper, *University of Missouri-Columbia*
Mr. William N. Gonser, *St. Louis University, St. Louis*
Mr. Dave Moreton, *University of Missouri-Columbia*
Ms. Carla Siegfried, *University of Missouri-Kansas City*
Ms. Nasreen Syed, *University of Missouri-Kansas City*
Mr. Tom Vaughn, *Washington University, St. Louis*
Mr. Jeff Wadley, *St. Louis University, St. Louis*

Hospital Medical Staff Section Delegate

J. David Auner, *Ironton*

Resident Physician Section Delegates

Michael R. Banton, *St. Louis*
John DeSpain, *Columbia*
William Musick, *Columbia*
David L. Pohl, *St. Louis*

MSMA President H. Peter Ekern, M.D. of Mexico gave the invocation and then welcomed the delegates from the newly-organized Hospital Medical Staff. The MSMA House acted to form the Hospital Medical Staff Section (HMSS) at the 128th Annual Convention. Dr. David Auner of Arcadia Valley Hospital and from Pilot Knob, HMSS delegate, was presented as was Dr. Jennifer Ashby, HMSS alternate delegate from Kansas City.

Dr. Ekern then introduced the newly-elected delegates from the Resident Physicians Section (RPS) including Dr. William Musick and Dr. John DeSpain from Columbia, Dr. David L. Pohl and Dr. Michael Banton from St. Louis, and Dr. Richard Hart from Kansas City. The RPS alternate delegates, Dr. Stephen Bolesta and Dr. William Kimlinger of Columbia, were presented also.

Dr. Ekern also shared another "first" with the House of Delegates. In addition to Dr. Michael Banton, a new RPS delegate, Dr. Banton's father, Dr. Bill Banton — President of the St. Louis Medical Society, attended the 129th, as did Dr. M. Roman Banton, who is respectively the wife and mother of the two other Dr. Bantons. It was the first time a father, mother and son combination of delegates were a part of the same MSMA House.

Valerie A. Peters photo

Three members of the Banton family of St. Louis attended the MSMA convention as official delegates. From left to right are: William C. Banton II, M.D., president of St. Louis Metropolitan Medical Society and St. Louis delegate; his wife M. Roman Banton, M.D., delegate from St. Louis; his daughter-in-law Margaret Schmidt Banton, M.D. and his son Michael Banton, M.D., resident physician delegate.

Dr. Robert Kissell, Chairman of the Committee on Credentials, reported that seven officers, 22 councilors, and 112 delegates were present. The minutes from the 128th Annual Convention were approved as published in the July 1986 issue of *Missouri Medicine*.

The members of the various committees as appointed were announced. They included:

Reference Committee on Constitution and Bylaws

Stephen McCray, *Kansas City, Chairman*
Thomas Sparkman, *Cape Girardeau*
Daniel O'Sullivan, *St. Louis*
Donald Potts, *Independence*
Brian Stufflebam, *St. Peters*

Reference Committee on Reports of Officers

Lawrence Rues, *Kansas City, Chairman*
David Klachko, *Columbia*
Jack Kayes, *St. Louis*
Michael T. Moore, *Nevada*
Luis Anglo, *St. Louis*

Reference Committee on Resolutions

James C. Redington, Jr., *St. Louis, Chairman*
Richard Michelson, *Kansas City*
Hugh Bartlett, *Rolla*
Norman Knowlton, *Springfield*
V. Kent Cooper, *Student, UMC*
Stanley S. Peterson from Springfield served as parliamentarian.

Credentials Committee

Richard W. Kissell, *Springfield, Chairman*
Richard Bradley, *St. Louis*
Douglas Bogart, *Kansas City*

The Tellers

Michael A. Gentry, *Springfield, Chief Teller*
Chris Fotopoulos, *Osage Beach*
Grant Bever, *Lee's Summit*
Rebecca Lueckenhoff, *Jefferson City*
Paul Petruska, *St. Louis*

Dr. Peter Ekern then addressed the entire House and his remarks appear on page 361 of this issue.

Vice Speaker Jo-Ellyn Ryall introduced the President of the MSMA Auxiliary, Gayle Vilmer, from Shawnee Mission, Kansas, who addressed the House. Her remarks appear on page 366 of this issue.

Mrs. Vilmer then introduced Sandra Mitchell, president-elect of the Auxiliary. She then asked Carol Robinson, the Auxiliary AMA-ERF Chairman, and Dr. Ekern to assist her in presenting the 1987 AMA-ERF checks to Missouri's four medical schools. Dr. Hugh Stephenson accepted a check for $6,408.55 in designated contributions for the University of Missouri-Columbia. Accepting a check for $6,071.11 for the University of Missouri at Kansas City School of Medicine was Ms. Marilyn McGuyre, Director of Student Affairs. Dr. Fred Peterson accepted a check for $8,131.26 on behalf of the Washington University School of Medicine. The St. Louis University School of Medicine received $19,081.57 in designated contributions; Dr. Manuel Comas accepted their check.

The Vice Speaker asked Dr. Piepergerdes, MSMA president elect, to present the next award. Dr. Piepergerdes recognized Allen Smith for his dedication and service as executive director of Jackson County Medical Society, now the Metropolitan Medical Society of Greater Kansas City.

Before he began working with physicians in the medical societies, Smith was a radio and television announcer for several stations in the Kansas City area. He was also the stadium announcer for the old Kansas City Athletics. In 1963, he joined the Jackson County Medical Society as director of communications. He left in 1964 to become the managing editor of the journal of the Missouri State Medical Association. He helped move the MSMA headquarters from St. Louis to Jefferson City in 1966.

In 1967, he became Jackson County's new executive director — a position he held until the beginning of 1987. Allen has become executive director of Civic Health Foundation in Kansas City since his recent retirement. He is involved in Rotary, in Rehabilitation Institute, and the Visiting Nurses Association.

After highlighting Smith's career, Dr. Piepergerdes presented him with a special plaque of appreciation on behalf of all the physicians from the greater Kansas City area and from the entire State of Missouri. Smith then addressed the House of Delegates.

ISSOUF
STATE
ED CA
SOCI
Dr. Sch

Valerie A. Peters photo

Dr. Piepergerdes presents a special plaque to retired Jackson County Medical Society Executive Allen D. Smith of Kansas City.

Next, Dr. Ekern asked Dr. William Bradshaw to come forward to receive the 1987 MSMA Citizenship and Community Service Award. Known as a dedicated educator and public servant, Dr. Bradshaw is a family physician who began his medical career in Clinton, Missouri. He went on to serve the people of Clinton as the county coroner and in many other civic capacities including mayor of Clinton.

In 1976, Dr. Bradshaw came to the University of Missouri-Columbia School of Medicine as an associate professor in the Department of Community and Family Medicine. He became the dean of the medical school in 1984, having served previously as the interim dean. Dr. Bradshaw is a past president of the Henry County Medical Society and the Boone County Medical Society. He has served as a delegate to the MSMA House and been on the MSMA Council for several years. He has served on a variety of health planning agencies and committees. Columbia and Clinton have benefited from his active participation on various Boards of Directors including the Boy Scouts and the Fellowship of Christian Athletes.

Dr. Ekern then presented Dr. Bradshaw with a plaque, and Dr. Bradshaw addressed the MSMA House.

Following Dr. Bradshaw's remarks, Dr. Ekern introduced Dr. Jerald Schenken from the AMA Board of Trustees. Dr. Schenken, a pathologist from Omaha, was first elected to the Board in June of 1985. He was elected the following year to the Board's Executive Committee. Dr. Schenken addressed the MSMA House regarding current AMA issues.

Vice Speaker Ryall announced that the Reports of the

SSOURI STATE
Dr. Winsky

Dr. Ekern presents the 1987 MSMA Citizenship and Community Service Award to William D. Bradshaw, M.D., Columbia.

Valerie A. Peters photo

Officers, Committees and Commissions were as shown in the Delegate's Handbook. She then asked for Supplemental Reports of Committees or Commissions. Seeing none, she invited Dr. Kenneth Rall to the lectern. Rall, Chair of the Missouri Patient Care Review Foundation, presented the report to the House.

Following this report, Dr. Richard Bradley presented the report on MOMEDICO. Then Dr. Robert Harmon, director of the Missouri Department of Health, addressed the House.

Vice Speaker Ryall then discussed the Supplemental Report of the Council which recounted their meeting of April 1. It was distributed to the House and referred to the Reference Committee on the Reports of Officers.

Dr. Ekern then announced the Nominating Committee, whose members are chosen from each Councilor District:

Steve Vilmer, *Kansas City.*
Carl Kruse, *Palmyra.*
George Bohigian, *St. Louis.*
Sam Farrell, *Washington.*
Jerry Murrell, *Columbia.*
William Cole, *Sedalia.*
William Case, *Kansas City.*
David Hall, *Springfield.*
Michael Moore, *West Plains.*
Ted Glenn, *Cape Girardeau.*
Carla Siegfried, *UMKC student representative.*
David Auner, *Pilot Knob, HMSS representative.*

Jerry Murrell was selected to serve as Chairman of the Committee.

At the request of the Vice Speaker, the House stood and observed a moment of silence in tribute to those MSMA members who had died since the 1986 Annual Convention. The Courtesy Resolution honoring them appears on page 360.

Speaker Winsky announced that the MSMA bylaws call for submission of resolutions at least 45 days prior to the Annual Convention. However, a number of late resolutions were introduced, each requiring a two-thirds majority to be accepted as business of the House.

The first resolution proposed the creation of an ad hoc Committee for Foreign Medical Graduates; it failed in the House.

The next resolution proposed Public Education Concerning Professional Review Organization. It passed, was numbered 28, and referred to the Reference Committee on Resolutions.

Implementation of Hepatitis B Vaccine was the next proposed resolution; it failed in the House.

The next resolution involved Physician Dispensing of Prescribed Medications; it failed in the House.

An MSMA Medical Student Section was the next proposed resolution. It passed, was numbered 29 and referred to the Reference Committee on Reports of Officers.

The final proposed resolution was Medical Staff Membership and Privileges of Psychologists. It passed, was numbered 30 and assigned to the Reference Committee on Reports of Officers.

Following this business, Clay-Platte Medical Society offered a Courtesy Resolution honoring Richard P. Bowles, M.D. for his many years of service to MSMA. Speaker Winsky made a few announcements and then Brad Freilich from the UMKC student delegation asked for a revote on the late resolution Implementation of Hepatitis B Vaccine. Once again, the resolution failed to receive a two-thirds majority.

Having no further business, the Speaker adjourned the First Session of the House of Delegates at 12:45 p.m.

MISSOURI STATE MEDICAL ASSOCIATION
MISSOURI STATE MEDICAL ASSOCIATION

Private practitioner Brant Mittler, M.D. of San Antonio, TX (left) faces off against HMO magnate Paul Ellwood, M.D. of Excelsior, MN, during their General Session debate. Cassette tapes of this informative presentation are available for $20 from MSMA.

SECOND SESSION

The Second Session of the 129th Annual House of Delegates of the Missouri State Medical Association was called to order by Speaker Winsky at 4:00 p.m. on Friday, April 3.

Dr. Richard Bradley from St. Louis gave the Supplemental Report of the Committee on Credentials, stating that seven officers, 23 councilors and 215 delegates were present and constituted a quorum.

Speaker Winsky then introduced Dr. Tommy Macdonnell, the only physician in the Missouri House of Representatives. Dr. Macdonnell, who represents the 140th District, then addressed the House and read a resolution from the Missouri House of Representatives honoring William Cecil Allen, M.D., A.B.F.P.

Dr. Macdonnell then asked Dr. Allen to come forward and address the House.

The next item of business was the Report of Missouri PAC, given by Dr. Marvin Singleton, Joplin. He announced that there are 1,347 active members of the Missouri Medical PAC, 81 sustaining members, and 15 members of the SuperPAC.

Dr. Jerry Murrell then presented the Report of the

Nominating Committee that proposed the following slate of officers for 1987-88:

President-Elect	Dr. T. J. Cooper, *St. Louis*
Vice Presidents	Dr. William J. Medlicott, *Kansas City* Dr. William C. Allen, *Columbia* Dr. John P. Roberts, *St. Louis*
Speaker of the House	Dr. Arlen D. Winsky, *Springfield*
Vice Speaker of the House	Dr. Jo-Ellyn Ryall, *St. Louis*
AMA Delegates	Dr. Melvin Kasten, *Cape Girardeau* Dr. Larry Piepergerdes, *Kansas City* Dr. Vernon Balster, *St. Louis* Dr. Walter German, *Springfield* (to fill the unexpired term of Richard H. Bowles, M.D.)
AMA Alternate Delegates	Dr. Marvin Singleton, *Joplin* Dr. H. Peter Ekern, *Mexico* Ms. Carla Siegfried, *UMKC* Dr. William J. Medlicott, *Kansas City* Dr. Keith Ashcraft, *Kansas City*

Reference Committee on Constitution and Bylaws

The next item of business was the Report of the Reference Committee on Constitution and Bylaws. It was presented by Dr. Stephen McCray, Chairman.

The main item referred to the Reference Committee was the report of the MSMA IPA/HMO Feasibility Study Committee which was the result of Resolution No. 2 adopted by this House in 1986.

Resolution No. 2 directed the MSMA Council to study the formation of an Association-sponsored IPA/HMO for the benefit of its members, prepare a report on this plan and, if substantial support was found among members, implement the plan. In response to Resolution No. 2, the Council heard a proposal from CharterMed, an HMO management firm, which was referred back for additional study. The Council then contracted with the Physicians Health Management Corporation to develop a market feasibility study of the entire proposal. It was this feasibility study on which this Reference Committee took testimony at its hearing.

The overwhelming consensus of the member comments was in opposition to the implementation of an Association-sponsored IPA/HMO. Briefly, opposing comments pointed out:

- Potential conflicts between the goals of the Association and an IPA/HMO.
- Uncertainty whether the Association could raise the approximately $4 million from members which would be required to implement the plan.
- Possible conflicts with other physician-run HMO plans in the State.
- The proliferation of similar plans already in operation in the State's metropolitan areas.

Therefore, the Committee recommended:

1. That an Association-sponsored IPA/HMO not be implemented at the present time.

2. That the MSMA become an educational resource for its membership by offering seminars and publications which would be designed to assist Missouri physicians in dealing intelligently with the proliferation of physician contracting with alternate delivery systems.

This report was adopted by the House.

MISSOURI
STATE
MEDICAL
ASSOCIATION
Dr. Winsky

House Speaker Arlen Winsky, M.D. of Springfield presides over the 1987 House of Delegates; to his right is Vice Speaker Jo-Ellyn Ryall, M.D. of St. Louis.

Reference Committee on Reports of Officers

Dr. Lawrence Rues, Chairman, gave the report. Since several items were considered noncontroversial, the Committee placed the following on the Consent Calendar for recommendation for adoption:

No. 1. Report of the President.
No. 2. Report of the MSMA Auxiliary.
No. 3. Report of the Committee on Legislative Affairs.
No. 4. Report of the Secretary.
No. 5. Report of the Treasurer-MSMA Financial Statement.
No. 6. Report of the Executive Vice President.
No. 7. Council Minutes.
No. 8. Report of the Missouri State Medical Foundation-MSMF Financial Statement.
No. 9. Report of the Commission on Public Affairs.
No. 10. Report of the Committee on Publication.
No. 11. Report of the Commission on Medical-Legal Affairs.
No. 12. Report of the Ad Hoc Committee on Sunsetting.
No. 13. Report of the Judicial Council.

There being no objections, the Consent Calendar was adopted.

House actions on the following resolutions appear in the section "Resolutions" on pages 357-360.

Resolution 1.	Funding for Physician Rehabilitation Program
Resolution 2.	The Employed Physician as Patient Advocate
Resolution 3.	Alcohol Abuse
Resolution 4.	Definition of Death
Resolution 8.	Opposition to Involuntary Contracts Through Licensing
Resolution 11.	Hospital Medical Staff Model Bylaws
Resolution 15.	Education in the Professional Discipline Process
Resolution 19.	Support for Minimum Immunization Requirements
Resolution 21.	Discouragement of Physicians Operating Multi-Level Sales Program Out of Their Professional Offices

Resolution 23.	Missouri Young Physicians Section
Resolution 25.	Philosophy Statement
Resolution 26.	Installment Payment of Dues
Resolution 29.	Medical Student Section
Resolution 30.	Medical Staff Membership and Privileges of Psychologists

MR. COOPER
DR. BA
DR. KNOWL
DR. MICHEL

Members of the Reference Committee on Resolutions hear debate regarding resolutions assigned to them. From left are Chairman James C. Redington Jr., M.D. of St. Louis; Mr. V. Kent Cooper, UMC medical student; Hugh Bartlett, M.D. of Rolla; Norman Knowlton, M.D. of St. Louis and Richard Michelson, M.D. of Kansas City.

Reference Committee on Resolutions

Dr. Jim Redington, Chairman, reported the following items placed on the Consent Calendar:

No. 1. Report of the Commission on Medical Economics, Third Party Medicine and Governmental Relations.
No. 2. Report of Commission on Continuing Education and Health Manpower.
No. 3 Report of the Physician Rehabilitation Committee.

There being no objections, the Consent Calendar was approved.

House actions on the following resolutions are reported in the section "Resolutions" on pages 357-360.

Resolution 5.	Model Legislation for Driving While Intoxicated
Resolution 6.	Diagnosis Related Groups
Resolution 7.	Young Physician DRG Payments
Resolution 9.	Strengthening Peer Review Statute
Resolution 10.	Immunity From Suit Arising From the Conduct of the Affairs of Nonprofit Organizations
Resolution 12.	Support for Catastrophic Health Insurance Plan
Resolution 13.	PRO Second Opinion
Resolution 14.	Standardization of Qualifications for Operators of Emergency Vehicles Transporting Injured/Ill Patients
Resolution 16.	Medicare Reimbursement
Resolution 17.	Principles and Guidelines for Foregoing Life-Sustaining Treatment in Adults and Patients' Right to Refuse Any Medical Treatment
Resolution 18.	Proposal to the American Medical Association for Pre-Certification of Medicare Patients and Recertification After Hospitalization
Resolution 20.	Support of Licensure for Dietitians
Resolution 22.	Level I and Level II Trauma Center Designation and Requirements
Resolution 24.	Nursing Education
Resolution 27.	Equal Reimbursement for Equal Service
Resolution 28.	Public Education Concerning Professional Review Organization

There was no unfinished business, so Vice Speaker Ryall called for new business. Winners of the televisions from the exhibit area were announced and they were Nasreen Syed, UMKC student, and M. R. "Pete" Hayden, M.D., Camdenton.

The House of Delegates adjourned at 6:10 p.m.

THIRD SESSION

The Third Session of the 129th Annual Meeting of the House of Delegates of the MSMA was called to order by Speaker Winsky at 8:00 a.m. on Sunday, April 6.

The Report of the Committee on Credentials was presented by Dr. Bradley who announced that seven officers, 23 councilors, 230 delegates were present. This represented a quorum and the report was adopted.

The first item of business was the Election of Officers, AMA Delegates and AMA Alternate Delegates. These individuals were nominated at the Second Session (see page 353 for the complete list) and the nominations were closed during that Session. The slate of officers for 1987-88 was unanimously elected by the House.

The next item of business was the Report of the Election of the Councilors and Vice-Councilors; these elections are held in the individual districts. Vice Speaker Ryall asked Dr. Berry Ivy to present the results. He announced:

First District

Vice Councilor	Stephen Vilmer

Second District

Councilor	Robert V. Tompson
Vice Councilor	Carl R. Kruse

Third District

Councilor	Arturo Montes Carol F. Williams David Wilkinson William Huffaker
Vice Councilor	Frank Ostapowicz

Fourth District

Councilor	J. Michael Conoyer
Vice Councilor	Sam Farrell

Sixth District

Councilor	A. J. Campbell
Vice Councilor	Jerry Meyer

Seventh District

Councilor	Dorothy Reister Frederick Hahn
Vice Councilor	Mark Martin

Eighth District

Councilor	Francis M. Corry
Vice Councilor	David Hall

Tenth District

Councilor	Melvin Kasten
Vice Councilor	William C. Shell

Students

Councilor	Dean Blakeley
Vice Councilor	Evan K. Saunders

Vice Speaker Ryall called for unfinished business. There being none, she called for new business. Dr. Ivy then conducted the installation of officers.

Following the installation of officers, Dr. Piepergerdes, newly-installed MSMA president, announced his list of appointments to committees and commissions (please note that a complete listing of all MSMA standing committees and commissions will appear in the August Directory issue):

Committee on Constitution and Bylaws

James A. Murphy, *St. Joseph*

Committee on Legislative Affairs

Jack Matthews, *Jefferson City*

Physician Rehabilitation Committee

John O'Hearne, *Kansas City*

Committee on Planning

Robert R. MacDonald, *St. Louis*

Committee on Continuing Education and Health Manpower

William D. Bradshaw, *Columbia*

Commission on Medical Economics, Third Party Medicine and Governmental Relations

C. C. Reynolds, *Kansas City*

Commission on Medical-Legal Affairs

Richard Fallon, *St. Louis*

Commission on Public Affairs

Barry J. Bass, *Rolla*

Judicial Council

Ronald Youmans, *Kansas City*
(His appointment required House approval; Dr. Youmans was elected).

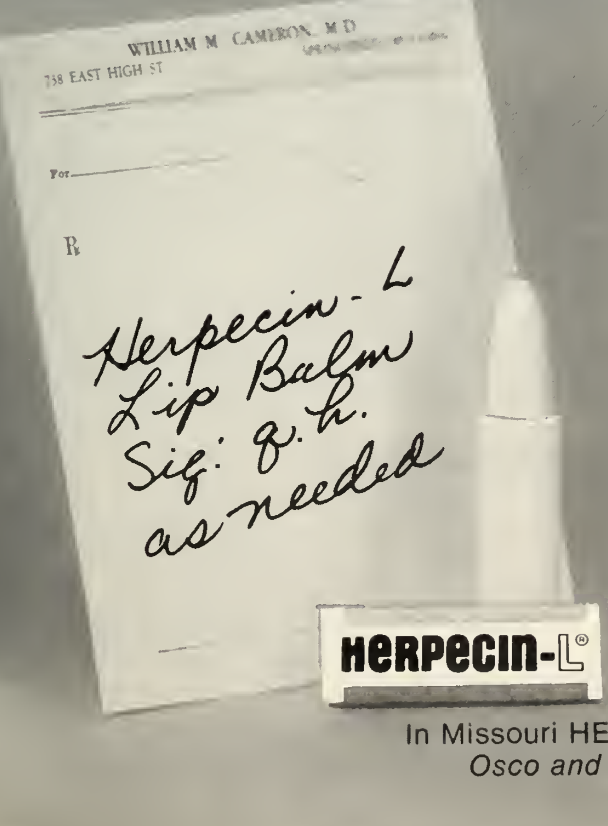
The appointments to the Commission on Interspecialty Medicine will be made later.

Speaker Winsky announced that the 1988 convention, the 130th, will be March 17 through 20 at the Hyatt Regency Hotel in Kansas City. The 131st Annual Convention, 1989, will be April 13 through 16, Marriott's Pavilion Hotel in St. Louis.

Invitations were received for the 1990 convention to be at the Lake of the Ozarks, the 1991 convention to be in Kansas City, and 1992 convention to be in St. Louis.

The Speaker then adjourned the 129th Annual Convention of the MSMA House of Delegates 8:20 a.m., April 5, 1987. ■

Dx: recurrent herpes labialis



"HERPECIN-L is my **treatment of choice** for perioral herpes." GP, NY

"HERPECIN-L appears to actually **prevent** the blisters . . . used **soon enough."** DDS, MN

"HERPECIN-L®. . . a **conservative approach** with **low risk/high benefits."** MD, FL

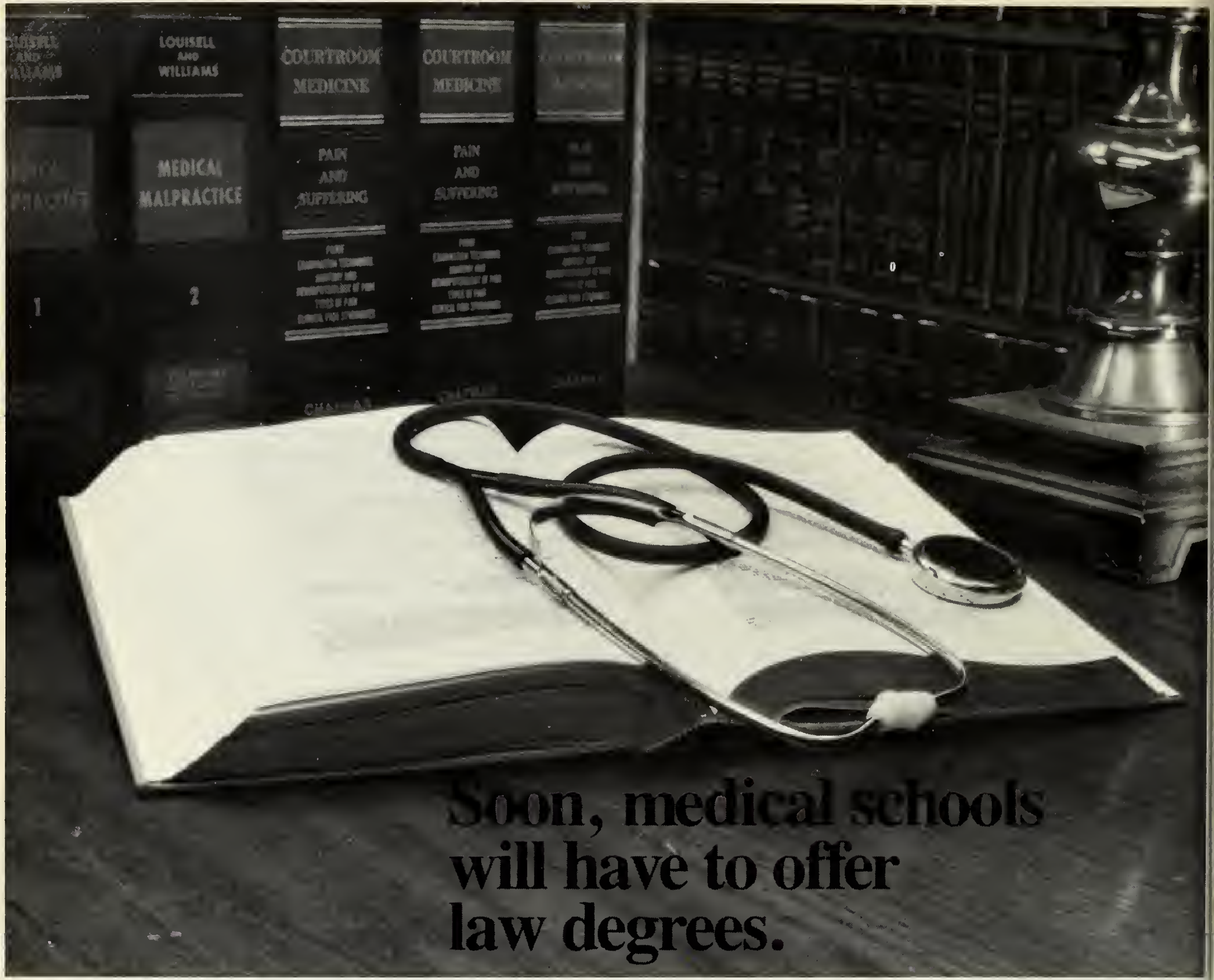
"Used at **prodromal symptoms** . . . blisters **never formed** . . . remarkable." DH, MA

"(In clinical trials) . . . **response** was **dramatic. HERPECIN-L** . . proven **far superior."** DDS, PA

"All patients claimed **shorter duration** . . . at **prodromal symptoms** . . . HERPECIN-L **averted** the attacks." MD, AK

OTC. *See P.D.R.* for information. For samples to make your own clinical evaluation, write: CAMPBELL LABORATORIES, INC., P.O. BOX 812-MD, FDR STATION, NEW YORK, N.Y. 10150

In Missouri HERPECIN-L is available at all *Medicare-Glaser, Osco and Walgreens* and other select pharmacies.


LOUISELL AND WILLIAMS
MEDICAL MALPRACTICE
2
1
COURTROOM MEDICINE
PAIN AND SUFFERING

Soon, medical schools will have to offer law degrees.

It's headed that way. With malpractice suits on the rise, doctors need to know law as well as they know medicine!

Our counsel? Why not concentrate on your practice and let Medical Defense Associates concentrate on your legal protection against malpractice suits. At MDA, we offer non-profit protection for your practice. It's protection you can count on because MDA answers only to its policy holders, not stock holders!

Call us, and let MDA tell you more. After all, since you were trained as a physician . . . you shouldn't be practicing law.

Call toll free 1-800-492-7212

Medical Defense Associates
P.O. Box 3817
Springfield, MO 65808

Represented by Wedgeworth and Co. Ltd.
dba Missouri Malpractice Managers

Resolutions

of the 129th MSMA House of Delegates

Resolution 1

Funding For Physician Rehabilitation Program

Introduced by the St. Charles-Lincoln Counties Medical Society

Resolved, that the Missouri State Medical Association seek funding from hospital medical staffs and other interested third parties to fund the Physician Rehabilitation Program.

House Action: Adopted.

Resolution 2

The Employed Physician as Patient Advocate

Introduced by the St. Charles-Lincoln Counties Medical Society

Resolved, that the MSMA affirm its support of the physician in the role of patient advocate in the consumption of health care services particularly when this role conflicts with the economic goals of an employing third party.

House Action: Adopted.

Resolution 3

Alcohol Abuse

Introduced by the MSMA Council

Resolved, that the MSMA continue its support of the Physician Rehabilitation Committee and similar programs aimed at helping the victims of alcohol and drug abuse to recover successfully.

House Action: Adopted.

Resolution 4

Definition of Death

Introduced by the MSMA Council

Resolved, that the MSMA adopt the following definition of death, in accordance with Missouri State Statute:

"A person shall be considered dead if, in the announced opinion of a licensed physician, based on ordinary standards of medical practice, he has experienced an irreversible cessation of spontaneous respiratory and circulatory functions. In the event that artificial means of support preclude a determination that these functions have ceased, a person shall be considered dead if, in the announced opinion of a licensed physician, based on ordinary standards of medical practice, he has experienced a total and irreversible cessation of spontaneous brain functions, including the brain stem. Death shall have occurred at the time when the relevant functions ceased."

House Action: Adopted.

Resolution 5

Model Legislation for Driving While Intoxicated

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that proper legal immunity for physicians and hospitals be provided in the model legislation similar to that provided in the laws on child abuse and communicable diseases; and be it further

Resolved, that the model legislation include lowering of the standard of blood alcohol content to 0.5% as conclusive evidence of drunk driving.

House Action: The above amended resolution was adopted.

Resolution 6

Diagnosis Related Groups

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that MSMA register its strong opposition to the inclusion of any physician's fees under DRG payments to hospitals and that this resolution be conveyed to Missouri's members of Congress.

House Action: Adopted.

Resolution 7

Young Physician DRG payments

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that the MSMA express its opposition to arbitrary reductions in Medicare reimbursement for physicians entering practice in 1984 or later, and be it further

Resolved, that our concern for the impact of this regulation on the health care of the elderly be conveyed to Missouri's Senators and Representatives.

House Action: Adopted.

Resolution 8

Opposition to Involuntary Contracts Through Licensing

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that the MSMA reaffirm its Council action of A-86 in stating its opposition to the concept of withholding medical licensure based on a physician's non-acceptance of Medicare assignment.

House Action: Adopted.

Resolution 9

Strengthening Peer Review Statute

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that the MSMA Council quickly review the current law and ask the Missouri State Legislature to immediately strengthen the confidentiality per section 537.037 in such a way as to ensure continued functioning of peer review committees within hospitals and medical societies.

House Action: Referred to the MSMA Council.

Resolution 10

Immunity from Suit Arising from the Conduct of the Affairs of Nonprofit Organizations

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that some efforts be made by MSMA to provide some form of immunity from personal liability to physician volunteers who serve as directors and officers as well as direct service volunteers.

House Action: Not adopted.

Resolution 11

Hospital Medical Staff Model Bylaws

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that the MSMA develop model hospital medical staff bylaws which are consistent with Missouri Revised Statutes, and that these model bylaws be appropriately disseminated.

House Action: The above substitute resolution was adopted.

Resolution 12

Support for Catastrophic Health Insurance Plan

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that MSMA support the program for providing catastrophic illness coverage as provided in Report MM of the American Medical Association adopted in 1986.

House Action: The above substitute resolution was adopted.

Resolution 13

PRO Second Opinion

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that the physician rendering mandated second opinions for a proposed surgical procedure not accept that person as a patient for the proposed surgical procedure.

House Action: The above substitute resolution was adopted.

Resolution 14

Standardization of Qualifications for Operators of Emergency Vehicles Transporting Injured/Ill Patients

Introduced by the St. Louis Metropolitan Medical Society

Resolved, that the Missouri State Medical Association urge the State Bureau of EMS to establish regulations governing the granting of privileges to operators of ambulances in consideration of the special course and periodic re-examination to be provided in a cost-acceptable manner.

House Action: The above substitute resolution was adopted.

Resolution 15

Education in the Professional Discipline Process

Introduced by the Cape Girardeau Area County Medical Society

Resolved, that the MSMA support the teaching of medical ethics to medical students and residents and to include information on the workings of the professional disciplinary agencies.

House Action: The above substitute resolution was adopted.

Resolution 16

Medicare Reimbursement

Introduced by the Cape Girardeau Area County Medical Society

Resolved, that the Missouri State Medical Association continue to consult senior citizens organizations about the discrimination which occurs under Medicare and to educate the public to the fact the cost of medical practice continues to rise while fees are frozen.

House Action: Adopted.

Resolution 17

Principles and Guidelines for Foregoing Life-Sustaining Treatment in Adults and Patient's Right to Refuse any Medical Treatment

Introduced by the Cape Girardeau Area County Medical Society

Resolved, that the Missouri State Medical Association Council consider the important subject "Principles and Guidelines for Foregoing Life-Sustaining Treatment for Adults and Patient's Right to Refuse any Medical Treatment" and ways for physicians to cope with this "right" and report back to the House of Delegates at its 1988 Annual Meeting.

House Action: Referred to the MSMA Council.

Resolution 18

Proposal to the American Medical Association for Pre-certification of Medicare Patients and Recertification after Hospitalization

Introduced by the Cape Girardeau Area County Medical Society

Resolved, that the Missouri State Medical Association recommend the institution of legally binding pre-certification of all medical, surgical, or psychiatric problems that require hospitalization of Medicare patients, and be it further

Resolved, that this Resolution be taken to the AMA for distribution to all of the national representatives and senators, as well as President Reagan.

House Action: Referred to the MSMA Council.

Resolution 19

Support for Minimum Immunization Requirements

Introduced by the Metropolitan Medical Society of Greater Kansas City

Resolved, that the Missouri Department of Health take such action as may be necessary to bring state immunization requirements into line with the guidelines and recommendations which have been developed by the American Academy of Pediatrics.

House Action: The above substitute resolution was adopted.

Resolution 20

Support of Licensure for Dietitians

Introduced by the Metropolitan Medical Society of Greater Kansas City

Resolved, that the Missouri State Medical Association urges the Missouri General Assembly to enact appropriate legislation which will require that any person using the title "dietitian" must be a registered dietitian.

House Action: The above substitute resolution was adopted.

Resolution 21

Discouragement of Physicians Operating Multi-Level Sales Programs Out of Their Professional Offices

Introduced by the Metropolitan Medical Society of Greater Kansas City

Resolved, that the Missouri State Medical Association discourage physicians from the practice of selling nutritional supplements to patients from their offices; especially, nutritional supplements sold in a pyramid system by their patients and resulting in profits to the physician.

House Action: Not adopted.

Resolution 22

Level I and II Trauma Center Designation and Requirements

Introduced by the Metropolitan Medical Society of Greater Kansas City

Resolved, that the Missouri Department of Health be encouraged to seek state funding in order to reimburse hospital and/or physicians who are required to provide around the clock "in-house" coverage, or drop its requirements for such coverage and instead allow physicians providing this coverage for Level I or Level II Trauma Centers to do so while "on call" and available to respond within a certain minimum period of time, and be it further

Resolved, that the Missouri State Medical Association form a special committee to study this problem and seek to implement the above recommendations.

House Action: Referred to the MSMA Council.

Resolution 23

Missouri Young Physicians Section

Introduced by the Audrain County Medical Society

Resolved, that the Missouri State Medical Association establish a Missouri Young Physicians Section; and be it further

Resolved, that membership shall consist of such MSMA members under 40 years of age or having less than five years in practice, excluding residents and students.

House Action: Not adopted.

Resolution 24

Nursing Education

Introduced by the Cape Girardeau Area County Medical Society

Resolved, that the MSMA prepare an informational report on the continuation of the diplomate/associate degree in nursing, the curriculum of the LPN program, and these nurses' roles, qualifications and training in providing patient care, so that adequate nursing care will be assured for all hospitals in Missouri.

House Action: Referred to the MSMA Council.

Resolution 25

Philosophy Statement

Introduced by the Greene County Medical Society

Resolved, that the following statement of philosophy be considered for adoption by the physicians of the State of Missouri to indicate their intent and purpose in the practice of medicine today:

"We believe unrestricted sharing of information on changing health care systems is essential for both patient and physician. We are dedicated to providing personalized, freely accessible, high-quality health care at reasonable prices. We also believe the essence of medical art is the patient-physician relationship. This relationship, physician independent judgment, and minimizing conflict of interest is best served by fee for service.

House Action: Not adopted.

Resolution 26

Installment Payment of Dues

Introduced by the Greene County Medical Society

Resolved, the MSMA supports accelerating the implementation of an installment system for payment of AMA dues and be it further

Resolved, that MSMA express its displeasure on the extended time required to implement this system.

House Action: The above substitute resolution was adopted.

Resolution 27

Equal Reimbursement for Equal Service

Introduced by the Tri Lakes Medical Society and Ozarks Medical Society

Be it resolved:

1) That MSMA's position shall be that all physicians and health care providers in the State of Missouri should receive equivalent reimbursement for equivalent services especially as provided by third party reimbursement schedules.

2) That MSMA will actively work toward the prompt elimination of second and third tier reimbursement levels with elevation of all providers to an equivalent level of reimbursement.

3) That MSMA will supply copies of this position to all legislators representing the lower tiered areas of the state.

4) That MSMA support such legislative initiates, court actions and resolutions from other professional organizations to further the goal of equivalent reimbursement for equivalent service on a statewide and nationwide basis.

5) That MSMA work toward the goal within the framework of the AMA through its delegates and committee representatives.

6) That MSMA support such patient-beneficiary initiates to eliminate the lesser reimbursement to beneficiaries and/or physicians from Medicare in rural areas and raise those benefits to levels equivalent to the rest of the state.

House Action: Adopted.

Resolution 28

Public Education Concerning Professional Review Organization

Introduced by the Cape Girardeau Area County Medical Society

Resolved, MSMA go on record as supporting the current AMA program to collect data on the costs of PRO implementation and the inequities in the PRO system.

House Action: The above substitute resolution was adopted.

Resolution 29

Medical Student Section

Introduced by Brad Freilich, UMKC School of Medicine

Resolved, that the Missouri State Medical Association Council prepare proposed changes in the Constitution and Bylaws to implement the establishment of a MSMA Medical Student Section. This should be presented to the 1988 House of Delegates along with a fiscal note. And be it further

Resolved, that these changes in the Constitution and Bylaws shall include the preservation of student seats on all councils and committees and shall provide for six student delegates to the MSMA House of Delegates (one from each of the four Missouri medical schools and two at large delegates).

House Action: Not adopted.

Resolution 30

Medical Staff Membership and Privileges of Psychologists

Introduced by the Callaway County Medical Society

Resolved, MSMA strongly reaffirms the existing policy of JCAH and the AMA that a hospital governing board cannot unilaterally amend the bylaws of a self-governing medical staff nor may their approval of medical staff bylaws be unreasonably withheld. A medical staff, therefore, cannot be forced to approve full voting membership for any allied health professions including psychologists.

House Action: The above substitute resolution was adopted.

Courtesy Resolution

Courtesy Resolution Richard P. Bowles, M.D.

Introduced by the Clay-Platte County Medical Society

Resolved, that the House of Delegates of the Missouri State Medical Association, representing all physicians in the State of Missouri, now recognizes and honors and expresses its sincere appreciation to Richard P. Bowles, M.D., for his years of service; and be it further

Resolved, that a copy of this resolution be spread upon the minutes of this Annual Meeting in order that it may become a part of the permanent archives of the Missouri State Medical Association.

House Action: Unanimously adopted.

Courtesy Resolution on Deceased Members

WHEREAS, there have been 70 deaths among members since the 1986 Convention, and

WHEREAS, each of these members is missed as an individual as well as for his/her contributions to the practice of medicine and to the Missouri State Medical Association, and

WHEREAS, the loss of each member is felt by all members, as well as his/her loved ones, and close associates and the patients he/she has served with dedication, therefore be it

RESOLVED, that the House of Delegates now pay personal tribute by standing for a moment of silence in memory of each of the 70 members we have lost and whose names will be recorded in the minutes of this Annual Convention.

Spafford, Allen L., *Shawnee Mission, KS*
Chute, Wm. D., *Moberly*
Bryan, James F., *St. Louis*
Birsner, Frank H., *Joplin*
Ellett, William H., *Appleton City*
Hoctor, Emmett F., *Farmington*
Taylor, Van W., *Bonne Terre*
Stauffacher, C. Gordon, *Sedalia*
Moen, Berwyn H., *St. Joseph*
Lewellen, Charles H., *Louisiana*
Kuhn, John R., *Joplin*
Jones, Victor T., *St. Charles*
Holt, Earl P., *St. Louis*
Heisel-Rigolosi, Mary J., *Kansas City*
Griffith, John A., *Prairie Village, KS*
Eubank, Dillard M., *Raymore*
Biello, Daniel R., *St. Louis*
Kubin, Milford T., *Starkville, MS*
Jordon, Walter R., *Sun City, AZ*
Graneto, Joseph A., *St. Louis*
Fischer, Jose M., *North Kansas City*
Denton, Robert E., *Smithville*
Anderson, John M., *St. Louis*
Woods, Harold V., *Blue Springs*
Signorelli, Andrew J., *St. Louis*
Martin, Andrew D., *Sikeston*
Lehner, Richard L., *North Bend, WA*
Kernodle, Jefferson D. II, *Kansas City*
Hata, Dyke, *Boonville*
Fischer, Theodore, *Altenburg*
Wyatt, Lois C., *St. Louis*
Hickerson, William H., *Independence*
Davis, Wilbur, *Charleston*
Cochrane, Joseph J., *Blue Springs*
Shobe, Frank O., *St. Louis*
Petersen, Harold, *St. Joseph*
Morse, Marvin, *St. Joseph*
Moreano, Almando H., *Kansas City*
Collins, Jack R., *St. Louis*
Benson, John F., *St. Louis*
Soule, Samuel D., *St. Louis*
Schaerrer, William C., *Kansas City*
Lambert, L. Marian, *Ormond Beach, FL*
King, James P., *St. Louis*
Johnson, Thomas W., *Grove, OK*
Binder, Morton, *St. Louis*
Hickcox, John P., *Columbia*
Throne, Elias M., *Kansas City*
Seabaugh, L. R., *Cape Girardeau*
Payne, Vaughn C., *St. Louis*
Hall, Lee Aker, *St. Louis*
Brown, John J., *Fulton*
Scheff, Harold, *St. Louis*
Swisher, Robert C., *Kansas City*
Van Matre, Reber M., *St. Louis*
Popp, Carl G., *Sikeston*
Reynolds, James D., *Overland Park, KS*
Rendleman, George F., Sr., *St. Louis*
Miller, Clint L., *Kansas City*
Marshall, Cameron, *Emporia, KS*
Furlong, Frances Stewart, *St. Louis*
Gulick, Charles R., *St. Louis*
Brumm, Lawrence W., Sr., *Kansas City*
Thompson, James W., *Liberty*
Brodkey, Glenda R., *Washington*
Garber, Murray, *Kansas City*
Herberg, Michael S., *St. Louis*
Montes, Romeo C., *St. Louis*
Hanlon, Thomas Joseph, *Unincorporated*

President's Message

"From Stettin in the Baltic to Trieste on the Adriatic an Iron Curtain has descended across the continent." Many will recall Sir Winston Churchill's words of March 5, 1945 in Fulton, Missouri, from his famous Iron Curtain Speech. I was fortunate to hear Vice-President George Bush speak at the 40th anniversary of Churchill's "The Sinews of Peace" speech in the Green Lecture series at Westminster College. The Vice-President felt Churchill was not global enough in his vision.

However, this was not the case with Walter German, your president of 1985-1986, nor the MSMA House of Delegates in 1986. In your wisdom to adopt Resolution 3, Officer Visitation, each active medical society in the state has been visited by an officer of the Association. Your President-Elect Larry Piepergerdes, Council Chairman Joe Cooper and I had this privilege and opportunity to increase the visibility of the Association and bring the policy of this House of Delegates to all Missouri physicians, the media, the Legislature, and others concerned about health care.

During my year as MSMA president, I have represented you before many audiences. I have voiced your achievements in the past, your efforts of today, and your goals and aspirations for the future of Missouri Medicine. By doing so, I feel I have learned more than I have taught, as the physicians of Missouri have enlightened me far more than I have inspired them. From Hayti to Hannibal, and from Springfield to Smithville, I just wish each of you could do as I, to visit those physicians in their communities and discuss their medical practice. I would like to share some of those experiences as well as considered conclusions.

H. Peter Ekern, M.D.

Medical practice has changed, will continue to change and never will be the same. Traditional, new, alternative, custom — all these terms describe variations. We know there is no best, and no better way, to practice medicine anymore. It is of utmost importance not to be divisive, and not to alienate physicians on one side or both, but to discuss medical practice as a whole in whatever situation, without descriptive adjectives. We must use the Missouri State Medical Association to reach all physicians in Missouri.

One special way this was addressed was the establishment of the Hospital-Medical Staff Section (HMSS). More than 60 hospitals were represented at the organizational meeting in January. Howard Lang, Chairman of the AMA's HMSS, was the keynote speaker. The delegate to this house, David Auner of Arcadia Valley Hospital, Councilor Charles Barbee of Boone Hospital Center, and Chairman of the section, James C. Redington of St. Mary's Health Center, were elected and are active here today. Many new issues and relationships between physicians and hospitals are present. One of these is that nearly one-third of the nation's acute care beds are now managed by multi-hospital systems, profit or non-profit. These new considerations will be addressed by the HMSS and brought to this House for debate.

Another special way is to help physicians with their practices and with their relationships, with the organizations and institutions of which they are affiliated. One practical way is through the 28 programs and services of the MSMA. However, one obligation we have is to expend every effort to maintain the posture and position of medicine not as a business, but as a calling; not as a livelihood, but as a dedication; and not as a trade, but as an art and a true profession. The loss of this aspect is the greatest threat to us and our patients. Many forces exerted on doctors today are pushing us away from professional aspects toward business aspects. Consider DRGs, reduction in Medicare and Medicaid benefits and payments, restriction of private insurance, pre-admission certification, second opinions, outpatient and ambulatory surgery, as forces to make a doctor think more about the financial aspect. There is a very real movement toward maintaining a business ethic rather than a professional ethic, and in protecting the owners and shareholders, rather than the patient. Physicians rightfully fear the lessening of quality and their adherence to professional standards because of financial constraints. Physicians need to know the dangers of weakening their adherence to professional standards, and the public needs to be told of the dangers for them if this should occur. We have to find a way to show society that our primary concern is that the care given is of the highest possible quality regardless of any other circumstances.

We must continue our work with government, with business and industry, and all other elements of society. We also must increase the visibility of physicians in every

Continued on page 362

H. Peter Ekern, M.D.

■ President's Message

Continued from page 361

community. We must become more active citizens. We can do this by attending school board and city council meetings, AARP meetings, or wherever health matters are concerned.

As physicians we take a considerable amount out of the community, and it is only fair to put a great deal back in. The community opinion must be that **our** success means **their** success, and **our** freedom to practice medicine means **their** freedom for quality care.

Enough of the philosophical. Other special areas I would mention are the Physician's Rehabilitation Program, which is very active with Eileen Duggan, M.D., as medical director. The Resident Physicians Section is organized with Chairman William Musick, M.D., Councilor Gerry Love, M.D., and six delegates attending their first session this year. There is a resolution to form a Young Physicians Section, a sizable segment with 42% of physicians under 40 years of age. I must add that this year's dues increase will allow you and your officers and councilors to initiate new, as well as to expand, existing programs.

Your staff in Jefferson City is excellent and needs to be commended. They continue to be outstanding under the leadership of Royal Cooper. I have found them cooperative, efficient, and extremely helpful to me over the year, and they will continue to gain MSMA high marks in their many endeavors for us.

I would like to sincerely thank all chairmen and members who have participated in the various commissions and committees for their outstanding leadership efforts this year.

Tinsley R. Harrison, famous for his textbook, *Harrison's Principles of Internal Medicine,* and chief at the University of Alabama Medical Center when I was there, had perhaps the best statement about the service of medicine and significance of the physician. He was indeed a great physician, teacher, scientist, humanitarian, and scholar, and above all, an example and an inspiration. One of his most famous paragraphs has been widely reproduced and has become an enduring beacon to the profession:

"No greater opportunity, responsibility, or obligation can fall to the lot of a human being than to become a physician. In the case of suffering he needs technical skill, scientific knowledge and human understanding. He who uses these with courage, with humility and with wisdom will provide a unique service for his fellow man, and will build an enduring edifice of character within himself. The physician should ask of his destiny no more than this, he should be content with no less!"

I wish to thank you for allowing me to serve as your President this past year. ■

1,141 Physicians Thank You

Your financial support of the Missouri State Medical Foundation has provided more than $2,400,000 in 2,598 loans to deserving medical students. Physicians throughout the nation thank you for your assistance.

Missouri State Medical Foundation • P.O. Box 1028 • Jefferson City, MO 65102

Presidential Inauguration Speech

It is my pleasure to discuss aspects and issues affecting us in the field of medicine, and Missouri medicine, in particular. These areas and topics of interest center around malpractice, membership and "monkey business."

First, let me tell you a story of a friend of mine, who in the 1960s was an officer in the Missouri State Highway Patrol. There was great unrest in the country with anti-church, anti-business, anti-government, anti-Vietnam, anti-establishment, and anti-everything sentiment. My friend was driving his patrol car south of Sedalia on a blacktop road, going around a gentle left-hand curve when he saw a lady driving the wrong way in his lane, forcing him off the road. It was a warm day, he had his window down and as she went by she hollered, "Pig!" He thought "the audacity of her to run me off the road and then call me 'pig.' " Just then, WHAM! he hit the pig! The moral of this story is, some of the things you think you have heard, you really haven't heard and some of the things you wish you had heard, we may need to elaborate on in the future.

The first topic I will address is professional liability. For the past 12 years the medical profession has been talking about the ravages of professional liability. Isn't it sad that today we have to come together with the realization that despite all our activities, the situation is not a great deal better than it was some 12 years ago?

Many of you may have seen the ABC program: "Diagnosis: Malpractice." If so, you realize what a tremendous job we have yet to do to educate the public, and more importantly perhaps, the media, as to what really are the issues of professional liability. You know the statistics: the increase in severity of judgments, the increase in frequency of claims, etc. You've heard our detractors say "It's all bad doctors," and when they found they couldn't prove that, they moved on to the insurance industry. I predict they will have equal trouble proving their responsibility as well.

Larry G. Piepergerdes, M.D.

For all of us, professional liability is the number one issue facing medicine. It is forcing physicians from the profession, preventing patients from getting needed care in high risk areas, and clearly increasing health care costs at a time we cannot afford the increase. It is prohibiting the use of new technology. For years we knew professional liability should be foremost in the public's mind. Fortunately, the medical profession has brought the crisis to public attention.

The American Tort Reform Association in Washington represents 200 diverse organizations. All are worried about liability, and how it affects their ability to provide services to their clients. Even the clergy is no longer immune from suits! The Chamber of Commerce defined professional liability as their number one issue for 1986, because their survey of some 2,000 American businesses showed that one out of three businesses is now going without insurance. Businesses can neither afford the premiums nor find the insurance. Senator Orrin Hatch of Utah is sponsoring legislation dealing with professional liability reform, believing that something must be done. I would point out, however, that the Federal Government usually doesn't solve problems; it is much more likely to subsidize them. Interestingly enough, at this point, public opinion seems to be ahead of those who are able to really do something about the professional liablity situation.

Last year the AMA conducted a poll on how Americans perceive the professional liability issue. The findings are remarkable, as a majority of those polled believe that there is a liability crisis in their local community with regard to community-created facilities and activities. More specific to our situation, 50% of the people polled believe people who sue doctors are more often unjustified than not; 58% believe too much money is awarded, and 70% believe there should be a limit on the awards given to plaintiffs. Two-thirds favor a ceiling on pain and suffering awards and 71% favor structured settlements. Seventy-five percent favor risk management programs being mandatory for physicians, and 80% believe there should be a limit on attorney's contingent fees. We do now have a favorable climate for change.

But what is the appropriate change? Because professional liability is a complex problem, there is no single, simple, quick-fix solution. I think it was H. L. Mencken who said that for every problem there is a simple, direct, easy solution — that is absolutely wrong. Fortunately or unfortunately, each one of us needs to be involved in this professional liability activity and if we fail to become involved, we are not going to see the progress that needs to be made.

In 1985 the AMA formed a specialty coordination activity (SCA). For the first time 47 specialty societies are sitting in the

Continued on page 364

Larry G. Piepergerdes, M.D.

same room, talking the same language, trying to find a single solution. Thirteen societies have contributed voluntarily from their own treasuries more than one half million dollars, to speed this program along.

What are they trying to do? They are trying to develop a four-pronged approach involving collection of data, dissemination of the data, risk management and tort reform. We need to develop credible data, agreed upon by everyone as the right figures. Once having collected that data, the next step in the four-pronged approach is to disseminate the information to all stake holders who are involved — a common educational strategy. We need to educate the profession. We need to educate the legislators. We need to educate the public and our patients, as well.

One problem with the SCA is risk management. Whether we like it or not, every liability activity has as its root a doctor/patient relationship that has gone awry for some reason. Happy patients don't sue their physicians. All physicians have had untoward results, but because of our positive relationships with our patients, these have not resulted in lawsuits. We know that 60% of the suits filed have no basis of merit and last year cost $47 million to defend. Unfortunately, despite all our activities the reasons physicians are sued have not changed a great deal. Therefore, we need to help physicians avoid either the reality or the appearance of liability.

Finally, in this approach is tort reform. Whatever else may be true or may occur, whatever else we may believe about this whole situation, something must be done to bring order out of the chaos that currently occupies the Judicial System. When 5% of the cases get 50% of the dollars, when 60% of our premium dollars do not end up in the pockets of injured patients but go to pay the friction costs of the whole process, and when the awards may have no relationship whatsoever to the severity of injury and we see Disneyland interpretations and expansion of liability theories that render fault immaterial, you must believe that something is wrong with the system. And even though only about 10% of our cases ever go to court, you might ask why is court reform so important? It is those 10% and those awards given by juries and in other judicial activities that set the benchmark for the settlement of deserving cases later.

Having said all of this, we have one more activity going on at the AMA. We are concerned that, first, because of the political process, but more importantly because of the unique doctor/patient relationship, there is uncertainty as to what constitutes the best health care available and what results can be obtained. That technology is so complex that the adversarial system is not out there to determine fact, but only to find out who wins.

We need to continue to try and fix the Tort System. If we can't fix it, we must have an alternative ready. We are well along the route, but Florida physicians know the futility of tort reform in the long run and how it can be subverted. If something is not done to help the doctors in Florida, as well as many other states in this country, we will have medical anarchy before long. We are working on a system that will preserve the fault basis, and separate fault from damages. This system will first decide what is a negligence. Then, if there was negligence, whether the patient was injured. Then we will go to some sort of a defined benefit schedule which will restore the predictability and equity to a system that is totally out of control.

It is interesting to note that in a publication of Melvin Belli's in the early 1950s, he sponsored a symposium of trial lawyers. The net sum result of this symposium was that there should be a redistribution of the wealth in the United States and that redistribution of wealth would come about by malpractice and service and product liability suits. It is interesting that 30 some odd years later we are reaping the negative effects of that strategy.

Regarding membership, we need to increase the numbers of women and young physicians in MSMA. Many young physicians are not participating in organized medicine, but also are not participating in organizations throughout the country. These are individuals age 21 to 41 belonging to the "Baby Boom" generation. They are the "me generation." They have had everything, they have done everything, they have been every place and they are not participating in, for example, organized religion. By and large, those are the physicians who are not participating in organized medicine so we will target women and young physicians in our 1987-88 membership drive.

I'd like to address "monkey business," an appropriate topic in that by and large we, as physicians, have lost control of medicine. The 1964 Medicare Law for the reimbursement of hospitals and physicians for services rendered to people in the Medicare age group is a wedge driven between the physicians and their patients. This wedge is in the extreme level of "monkey business" in Massachusetts. As you know, Massachusetts requires relicensure contingent upon acceptance of Medicare without the ability to balance bill or to treat that patient without taking Medicare by assignment. Organized medicine vigorously opposes this. It has been upheld in the first appeal and, hopefully, the Supreme Court will hear it; my understanding is that they will hear only 5% of the cases that have been upheld on the first appeal process. It is extremely important for our freedom and efforts to maintain the proper doctor/patient relationship. Additional wedges which have been driven between the physician and the patient include third party payers of the Blue Cross/Blue Shield, HMO, PPO, IPA variety. Again, let me make it clear that I am not opposed to these, as I am on record, as are the AMA and the MSMA, as supporting a pluralistic approach to the financing and management of health care in the United States. I do believe in the pluralistic approach. I will point out that these areas, when taken to the extreme, can be detrimental to the patient's best interest. That it is not in the best interest of physicians because they cannot reach their patients with the traditional doctor/patient relationship.

Other "monkey business" includes the attempt to pay a physician in the hospital on the DRG basis, a lump sum payment. In this administration President Reagan's budget recommendation would be that all physicians be paid with a lump sum fee to the hospital on a DRG basis. This was vigorously opposed and has been changed to the R.A.P. group which includes radiologists, anesthesiologists and pathologists. An attempt now is being made, with the concurrent resolution #30 in the House and in the Senate concurrent resolution #15, to state that there should be no change in reimbursement to physicians. We should have a moratorium on this physician reimbursement to leave things as they are are and wait until the Harvard and AMA-sponsored study is completed; this will take approximately another eighteen months. This is a resource based relative value payment schedule much as a California relative value, but on a resource basis. We do have physicians who are participating in this from MSMA. They have been meeting and are making good progress. Hopefully, we can get enough members of Congress to sign the concurrent resolutions in both the House and Senate to stop this. Again, I think that you can see from the things that I have mentioned that most of these are on the basis of political issues and that we need some political clout.

It is for that reason that I again bring up the concept of membership participation and the need to be active in organized medicine on a county, state and national level of the AMA and also in the specialty societies. We have few friends, but I think that the more voices they hear from our side that it is not just a vested interest, not just a self-serving interest, but that we, in fact, do have the best interest of our patients at heart, then the better chance we have of winning some of these issues.

We certainly have our work cut out for us. ■

Coming next month:

Missouri Medicine's Annual Directory Issue

Remember your patients, and your patients will remember you.

Staying in touch with your patients on a regular basis — what could be more important to a healthy practice?

Remember your patients four times a year with Life Lines, a state-of-the-art patient newsletter.

Published quarterly with your name on the masthead, Life Lines is personalized to your individual practice and will be shipped directly to you, ready-to-mail. Life Lines also available in Spanish.

Call Elizabeth Brennan, Director of Marketing, for details on how you can subscribe to Life Lines, the patient newsletter that works.

(816) 373-2850 or 373-1188.

Life Lines

PATIENTS APPRECIATE IT.

AND THAT'S THE BOTTOM LINE.

Auxiliary Report

Gayle Vilmer

It is a pleasure for me to bring this report of the Missouri State Medical Association Auxiliary.

One year ago, I accepted the honor and responsibility of President of the Missouri State Medical Association Auxiliary. At that time, I chose the key as my visible symbol for the year and the theme — "There are those who curse the lock . . . while others search to find the key."

Today, I am proud to report that your Auxiliary chose to search for the elusive key to the future of medicine this past year; and, in doing so, added yet another year of accomplishments to its impressive record of serving others and working to improve the image of the physician in the community.

In communities throughout the state of Missouri, your spouses have distributed amblyopia tests, held seminars on teen suicide prevention, sponsored health fairs for children, and served as public relations people for the medical society. Your Auxiliary's list of community service is long and varied.

This past year, your Auxiliary spent a considerable amount of time raising funds for local health-related scholarships, the Missouri State Medical Foundation and the American Medical Association Education and Research Foundation. Both Foundation funds show a substantial increase this year. To date, the Auxiliary has raised over $17,000.00 for AMA-ERF and the Missouri State Medical Foundation total is now over $6,000.00.

As with other volunteer organizations throughout the state, membership was a high priority for us this year. Our emphasis paid off and I am happy to announce that we were so successful in our endeavor that we have gained a new delegate to the AMA Auxiliary meeting in June! Another membership endeavor that has proven very successful for us this year has been the initiation of our Sponsor-a-Spouse (SAS) program. With this program, a regular member pays the Auxiliary dues for a resident physician spouse. We targeted the University of Missouri at Columbia this year and we intend to offer this program to our other Missouri medical schools in the coming year.

In February, a multi-state meeting was initiated by Missouri for the purpose of holding an intensive membership workshop. It was held in Kansas City and we were honored to have in attendance Auxilians from Missouri, Kansas, Iowa, Indiana, Oklahoma, Nebraska and Illinois. This proved to be one of the highlights of the year and our Missouri Auxilians should be commended for their participation.

Since the future of medicine is being guided by our legislators, we held a seminar in June on *Managing a Political Campaign*. This seminar taught us how to organize a political campaign and enabled the participants to work in their respective political candidate's campaigns this past summer and fall. This proved to be a very valuable political tool.

This spring we held our annual "Day at the Legislature" for the purpose of becoming better acquainted with the legislators who are handling medically-related legislation. Now, we are no longer "just another face in the crowd" for the legislators. We have become the group who took the time to visit their legislators in Jefferson City — and who showed real concern for the health and welfare of Missouri's citizens.

Yes, this has been a very busy year for your Auxiliary. We have worked diligently to improve the image of the physician in the community and we feel we have made a positive difference.

Thank you very much for your attention this morning and for your generous support this past year. I am deeply grateful for the excellent cooperation and support of Dr. Ekern, the MSMA Council, Royal Cooper and the entire staff in Jefferson City.

On behalf of the Auxiliary, I wish you a successful and productive 129th annual convention.

During the next few days, may you also find the key that unlocks the door to the future of medicine. ■

Gayle Vilmer

129th Annual Convention Exhibitors

Air Force Reserve Health Professions
Robins AFB, GA

Automated Professional Management
St. Louis

Ayerst Laboratories
Springfield

Boehringer Ingelheim Pharmaceuticals, Inc.
Ridgefield, CT

CardioResources, Inc.
Kansas City

Charter Hillside Hospital
Columbia

Cycare Systems, Inc.
Dubuque, IA

Department of Health
Jefferson City

Direct Pharmaceutical Corporation
Kansas City

Dodson Insurance Group
Kansas City

Encyclopaedia Britannica USA
Chicago, IL

Fred S. James & Company of Missouri, Inc.
Kansas City/St. Louis

Glaxo, Inc.
Dallas, TX

Geigy Pharmaceutical Company
San Mateo, CA

GTE (General Telephone)
Columbia

HMSS, Inc.
St. Louis

Hoechst-Roussel Pharmaceuticals, Inc.
Somerville, NJ

Hoffmann LaRoche
Nutley, NJ

The Key Company
St. Louis

Med-Data
Kirkwood

Medical Defense Associates
Springfield

The Medical Protective Company
Fort Wayne, IN

Medical Sales Associates
Olathe, KS

Medicare Part B/General American Life Insurance
St. Louis

Metpath
St. Louis

MidAmerica Management Corporation
Maryland Heights

The Missouri Army National Guard
Jefferson City

Missouri Rehabilitation Center
Mt. Vernon

Missouri State Medical Association
Jefferson City

MOMEDICO
St. Louis

MSMA Retirement Plan System/E.F. Hutton
St. Louis

Parke-Davis
Morris Plains, NJ

Pfizer Laboratories Division
St. Charles

The Purdue Frederick Company
Norwalk, CT

Risk Control Associates, Inc.
Springfield

Roerig Division
Chesterfield

W. B. Saunders Company
Shawnee Mission, KS

SmithKline Bio Science Laboratory
St. Louis

Smith Kline & French Laboratories
Philadelphia, PA

St. Louis Blue Shield
St. Louis

Social Security Administration
Kansas City

Southern Medical Association
Birmingham, AL

The Upjohn Company
St. Louis

U.S. Army
Washington, D.C.

In lieu of exhibits, the following firms have made cash donations to assist in the sponsorship of Scientific Sessions:

Eli Lilly and Company
Indianapolis, IN

Mid-America Computing, Inc.
Shawnee Mission, KS

LDS; DSI-MedCom
Overland Park, KS

Missouri State Medical Association

Annual Meeting
Marriott's Tan-Tar-A, Lake of the Ozarks
Friday, April 3, 1987

The Annual Meeting of the Missouri State Medical Foundation was called to order by Miles C. Whitener, M.D., president. The minutes of the 1986 Annual Meeting were approved as published in *Missouri Medicine*.

Each person reviewed a packet containing the MSMF loan program fact sheet, auditors' report, and a general report regarding the Foundation's business for 1986-87.

The following people were elected to the Board of Trustees: Miles C. Whitener, M.D. was re-elected to a five-year term as was Mary E. S. Case, M.D. Incoming MSMA president, Larry G. Piepergerdes, will serve as ex-officio member of the Board.

Discussion was held regarding the charitable remainder trust program initiated for MSMF by E. F. Hutton of St. Louis. Changing the time of the MSMF Annual Meeting was also discussed; this would prevent conflict with scientific sessions also held during the MSMA Annual Convention.

There being no further business, the MSMF Annual Meeting was adjourned.

Board of Trustees
Marriott's Tan-Tar-A Lake of the Ozarks
Friday, April 3, 1987

The meeting of the Board of Trustees of the Missouri State Medical Foundation was called to order by Dr. Miles C. Whitener, president. The following slate of officers was nominated from the floor and was elected by acclamation:

President — Miles C. Whitener, M.D., St. Louis
Vice President — Gary A. Dyer, M.D., St. Joseph
Secretary-Treasurer — Robert H. Tanner, M.D., Jefferson City
Assistant Secretary — Susan Flanigan Gold

The Board announced that $8063 had been donated to the Foundation.

Mike Grimes of E. F. Hutton then addressed the Board on the Charitable Remainder Trust program. In the first year, more than $20,000 was acquired for the Foundation through this program.

Much discussion was held on the loan process and the interest rate charged to recipients. Currently, loan recipients are charged 4% interest during medical school and 10% during residency and private practice. It was suggested that the interest rate be tied to the Prime Interest Rate. At the Annual Meeting, interest rates for the upcoming award year would be established, based on the Prime. This will be investigated further.

There being no further business, the meeting was adjourned. ■

LIBRIUM® Ⓒⅳ
chlordiazepoxide HCl/Roche
5-mg, 10-mg, 25-mg capsules
Before prescribing, please consult complete product information, a summary of which follows:
Indications: Management of anxiety disorders; short-term relief of anxiety symptoms, acute alcohol withdrawal symptoms, preoperative apprehension and anxiety. Usually not required for anxiety or tension associated with stress of everyday life. Efficacy beyond four months not established by systematic clinical studies. Periodic reassessment of therapy recommended.
Contraindications: Known hypersensitivity to the drug.
Warnings: Warn patients that mental and/or physical abilities required for tasks such as driving or operating machinery may be impaired, as may be mental alertness in children, and that concomitant use with alcohol or CNS depressants may have an additive effect. Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage. Withdrawal symptoms (including convulsions) reported after abrupt cessation of extended use of excessive doses are similar to those seen with barbiturates. Milder symptoms reported infrequently when continuous therapy is abruptly ended. Avoid abrupt discontinuation; gradually taper dosage.

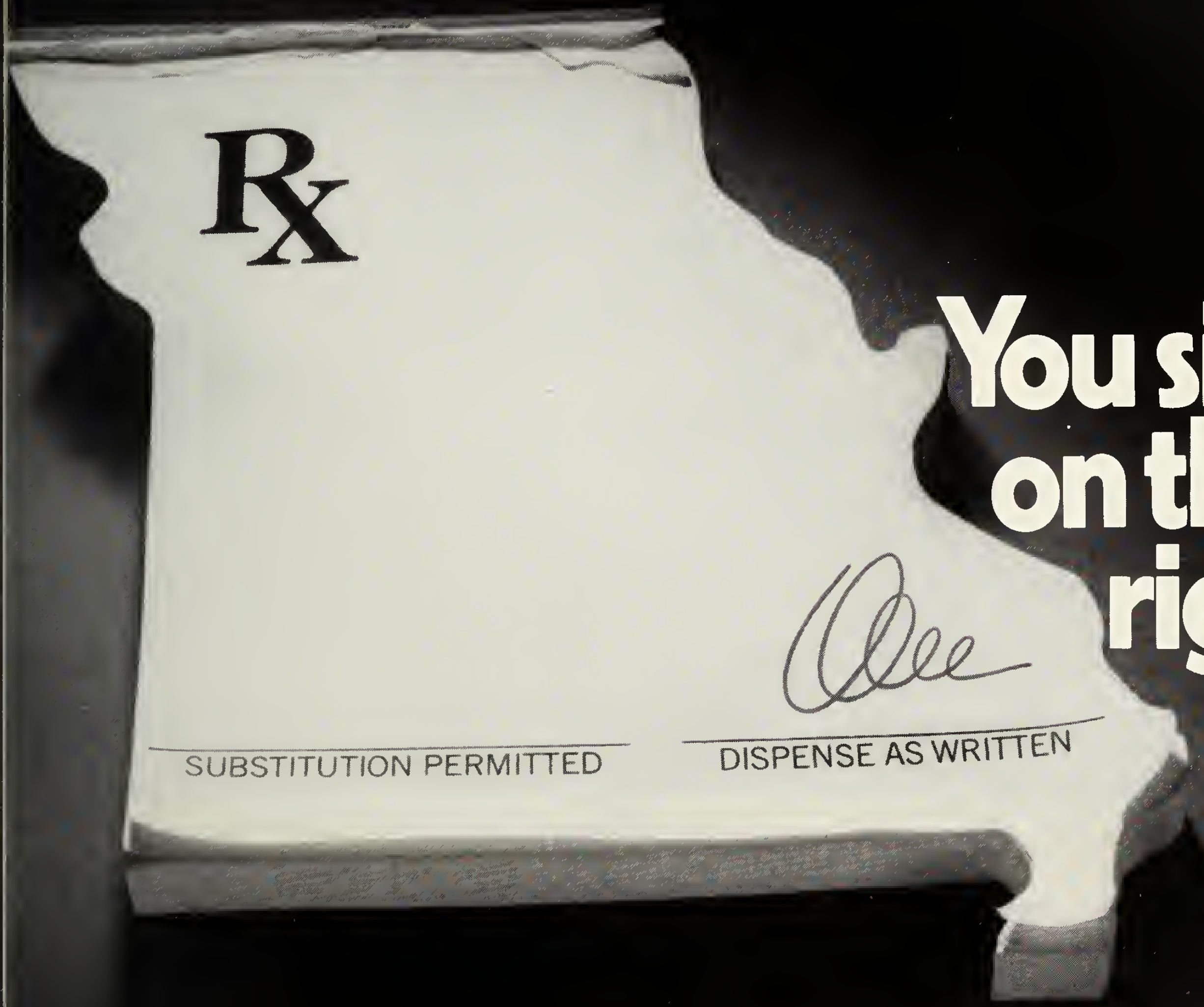
> ***Usage in Pregnancy:* Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (*e.g.*, excitement, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically. Due to isolated reports of exacerbation, use with caution in patients with porphyria.
Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.
Usual Daily Dosage: Individualize for maximum beneficial effects. *Oral—Adults:* Mild and moderate anxiety disorders and symptoms, 5 or 10 mg *t.i.d.* or *q.i.d.;* severe states, 20 or 25 mg *t.i.d.* or *q.i.d. Geriatric patients:* 5 mg *b.i.d.* to *q.i.d.* (See Precautions.)
Supplied: Librium® (chlordiazepoxide HCl/Roche) *Capsules*, 5 mg, 10 mg and 25 mg—bottles of 100 and 500; Tel-E-Dose® packages of 100, available in boxes of 4 reverse-numbered cards of 25, and in boxes containing 10 strips of 10. Libritabs® (chlordiazepoxide/Roche) *Tablets*, 5 mg and 10 mg—bottles of 100 and 500; 25 mg—bottles of 100. With respect to clinical activity, capsules and tablets are indistinguishable. P I. 0286

ROCHE®
Roche Products Inc.
Manati, Puerto Rico 00701

In Missouri, when you decide to prescribe Librium,

To protect your decision...


Rx
SUBSTITUTION PERMITTED
DISPENSE AS WRITTEN

You sign on the right.

Librium® 5-mg, 10-mg, 25-mg capsules
brand of
chlordiazepoxide HCl/Roche Ⓘⓥ
nobody does it better!

ROCHE® Copyright © 1987 by Roche Products Inc. All rights reserved.

Please see adjacent page for a summary of product information.

TWO HOUR
0
12
24
36
48
1
12
24
36
48
2
POLICE WILL NOT TURN HANDLE
ONLY
DUNCAN METER
RED FLAG INDICATES VIOLATION
INSTRUCTIONS
1-INSERT COIN IN CORRECT SLOT.

Brokerage Services

Because you shouldn't pay for what you don't need.

You follow the market closely and you know what you want. When the time is right, you move quickly. You don't need advice.

Save up to 70% off full-cost brokerage commission rates when you buy or sell through United Missouri Brokerage Services. We're linked by computer with National Financial Services Corporation for fast transactions.

Why write checks or wait for credits? Settlements, dividends and interest can immediately be debited or credited to your United Missouri account, if you wish.

Investor protection is through SIPC (Securities Investor Protection Corporation). Call your brokerage representative about setting up a brokerage account.

UNITED MISSOURI BANKS

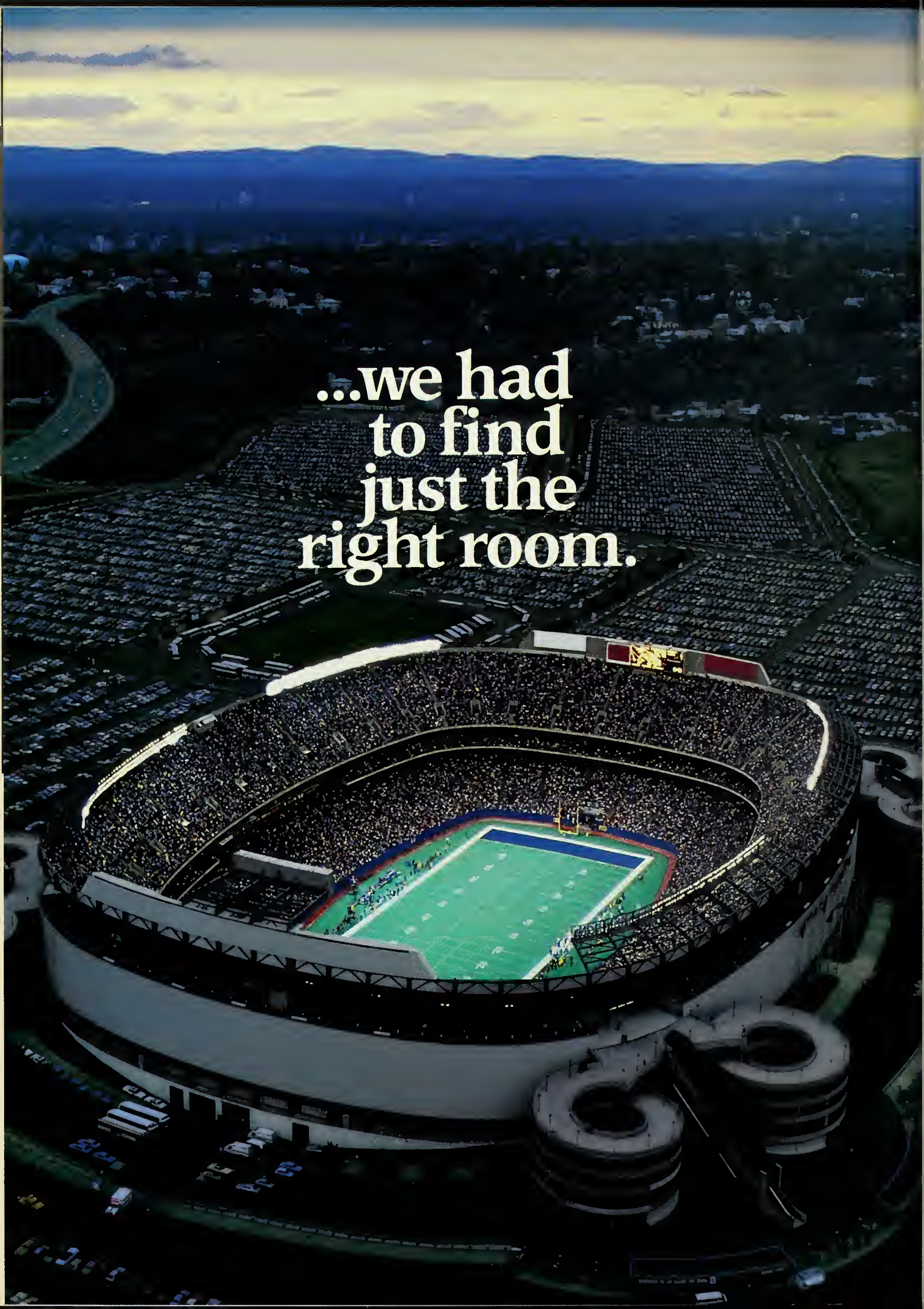
P.O. Box 419226, Kansas City, Missouri 64141-6226, (816) 842-2222
Toll free in Missouri: 1-800-842-3500
Toll free in states contiguous to Missouri: 1-800-842-9999

To show you how many hypertensives stayed on

INDERAL® LA

(PROPRANOLOL HCl)

after a major nationwide trial...


...we had
to find
just the
right room.

60,073 patients (90%) who started on INDERAL® LA stayed on INDERAL LA.[1*]

Surprising? Not really.

Because most patients on INDERAL LA (propranolol HCl) don't even know it's working.

A recent double-blind, placebo-controlled, crossover study in 138 hypertensive patients[2] revealed that INDERAL LA has a side effects profile unsurpassed by atenolol or metoprolol — which shows how well-tolerated once-daily INDERAL LA can be.

Sole therapy or concomitant therapy? Fifty-nine percent of the time, INDERAL LA stood on its own.

The patients in the nationwide compliance trial were no different from yours. Generally when the antihypertensive regimen is complicated, compliance may become a problem. So, the effectiveness of INDERAL LA as once-daily monotherapy is a big plus. Of the remaining hypertensives in the program, 36% were treated merely with the addition of a diuretic to INDERAL LA.

For the noncompliant patients in your practice, INDERAL LA may well be the answer.

Almost 20,000 of the patients in the nationwide compliance trial were identified as having been noncompliant with their previous antihypertensive therapy. Their physicians reported that 88% showed improved compliance when placed on once-daily INDERAL LA.

Control, comfort, and compliance

ONCE-DAILY
INDERAL® LA
(PROPRANOLOL HCl) LONG ACTING CAPSULES

Like conventional INDERAL Tablets, INDERAL LA should not be used in the presence of congestive heart failure, sinus bradycardia, cardiogenic shock, heart block greater than first degree, and bronchial asthma

*After a 30-day trial with INDERAL LA, physicians reported that 90% of the patients would remain on INDERAL LA

The one you know best keeps looking better

NOW AVAILABLE...
NEW LOW DOSE
INDERAL LA 60 mg
(PROPRANOLOL HCl) LONG ACTING CAPSULES

Please see next page for brief summary of prescribing information

The one you know best keeps looking better

BRIEF SUMMARY *(FOR FULL PRESCRIBING INFORMATION, SEE PACKAGE CIRCULAR.)*

INDERAL® LA brand of propranolol hydrochloride **(Long Acting Capsules)**

DESCRIPTION. INDERAL LA is formulated to provide a sustained release of propranolol hydrochloride. INDERAL LA is available as 60 mg, 80 mg, 120 mg and 160 mg capsules.

CLINICAL PHARMACOLOGY. INDERAL is a nonselective, beta-adrenergic receptor-blocking agent possessing no other autonomic nervous system activity. It specifically competes with beta-adrenergic receptor-stimulating agents for available receptor sites. When access to beta-receptor sites is blocked by INDERAL, the chronotropic, inotropic, and vasodilator responses to beta-adrenergic stimulation are decreased proportionately.

INDERAL LA Capsules (60, 80, 120, and 160 mg) release propranolol HCl at a controlled and predictable rate. Peak blood levels following dosing with INDERAL LA occur at about 6 hours and the apparent plasma half-life is about 10 hours. When measured at steady state over a 24-hour period the areas under the propranolol plasma concentration-time curve (AUCs) for the capsules are approximately 60% to 65% of the AUCs for a comparable divided daily dose of INDERAL Tablets. The lower AUCs for the capsules are due to greater hepatic metabolism of propranolol, resulting from the slower rate of absorption of propranolol. Over a twenty-four (24) hour period, blood levels are fairly constant for about twelve (12) hours then decline exponentially.

INDERAL LA should not be considered a simple mg-for-mg substitute for conventional propranolol and the blood levels achieved do not match (are lower than) those of two to four times daily dosing with the same dose. When changing to INDERAL LA from conventional propranolol, a possible need for retitration upwards should be considered especially to maintain effectiveness at the end of the dosing interval. In most clinical settings, however, such as hypertension or angina where there is little correlation between plasma levels and clinical effect, INDERAL LA has been therapeutically equivalent to the same mg dose of conventional INDERAL as assessed by 24-hour effects on blood pressure and on 24-hour exercise responses of heart rate, systolic pressure and rate pressure product. INDERAL LA can provide effective beta blockade for a 24-hour period.

INDICATIONS AND USAGE. Hypertension: INDERAL LA is indicated in the management of hypertension; it may be used alone or used in combination with other antihypertensive agents, particularly a thiazide diuretic. INDERAL LA is not indicated in the management of hypertensive emergencies.

Angina Pectoris Due to Coronary Atherosclerosis: INDERAL LA is indicated for the long-term management of patients with angina pectoris.

Migraine: INDERAL LA is indicated for the prophylaxis of common migraine headache. The efficacy of propranolol in the treatment of a migraine attack that has started has not been established and propranolol is not indicated for such use.

Hypertrophic Subaortic Stenosis: INDERAL LA is useful in the management of hypertrophic subaortic stenosis, especially for treatment of exertional or other stress-induced angina, palpitations, and syncope. INDERAL LA also improves exercise performance. The effectiveness of propranolol hydrochloride in this disease appears to be due to a reduction of the elevated outflow pressure gradient which is exacerbated by beta-receptor stimulation. Clinical improvement may be temporary.

CONTRAINDICATIONS. INDERAL is contraindicated in 1) cardiogenic shock, 2) sinus bradycardia and greater than first-degree block, 3) bronchial asthma, 4) congestive heart failure (see WARNINGS) unless the failure is secondary to a tachyarrhythmia treatable with INDERAL.

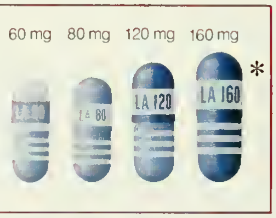
WARNINGS. CARDIAC FAILURE: Sympathetic stimulation may be a vital component supporting circulatory function in patients with congestive heart failure, and its inhibition by beta blockade may precipitate more severe failure. Although beta blockers should be avoided in overt congestive heart failure, if necessary, they can be used with close follow-up in patients with a history of failure who are well compensated and are receiving digitalis and diuretics. Beta-adrenergic blocking agents do not abolish the inotropic action of digitalis on heart muscle.

ONCE-DAILY

INDERAL® LA

(PROPRANOLOL HCl)

LONG ACTING CAPSULES



IN PATIENTS WITHOUT A HISTORY OF HEART FAILURE, continued use of beta blockers can, in some cases, lead to cardiac failure. Therefore, at the first sign or symptom of heart failure, the patient should be digitalized and/or treated with diuretics, and the response observed closely, or INDERAL should be discontinued (gradually, if possible).

> IN PATIENTS WITH ANGINA PECTORIS, there have been reports of exacerbation of angina and, in some cases, myocardial infarction, following *abrupt* discontinuance of INDERAL therapy. Therefore, when discontinuance of INDERAL is planned, the dosage should be gradually reduced over at least a few weeks, and the patient should be cautioned against interruption or cessation of therapy without the physician's advice. If INDERAL therapy is interrupted and exacerbation of angina occurs, it usually is advisable to reinstitute INDERAL therapy and take other measures appropriate for the management of unstable angina pectoris. Since coronary artery disease may be unrecognized, it may be prudent to follow the above advice in patients considered at risk of having occult atherosclerotic heart disease who are given propranolol for other indications.

Nonallergic Bronchospasm (eg, chronic bronchitis, emphysema)—PATIENTS WITH BRONCHOSPASTIC DISEASES SHOULD IN GENERAL NOT RECEIVE BETA BLOCKERS. INDERAL should be administered with caution since it may block bronchodilation produced by endogenous and exogenous catecholamine stimulation of beta receptors.

MAJOR SURGERY: The necessity or desirability of withdrawal of beta-blocking therapy prior to major surgery is controversial. It should be noted, however, that the impaired ability of the heart to respond to reflex adrenergic stimuli may augment the risks of general anesthesia and surgical procedures.

INDERAL (propranolol HCl), like other beta blockers, is a competitive inhibitor of beta-receptor agonists and its effects can be reversed by administration of such agents, eg, dobutamine or isoproterenol. However, such patients may be subject to protracted severe hypotension. Difficulty in starting and maintaining the heartbeat has also been reported with beta blockers.

DIABETES AND HYPOGLYCEMIA: Beta blockers should be used with caution in diabetic patients if a beta-blocking agent is required. Beta blockers may mask tachycardia occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be significantly affected. Following insulin-induced hypoglycemia, propranolol may cause a delay in the recovery of blood glucose to normal levels.

THYROTOXICOSIS: Beta blockade may mask certain clinical signs of hyperthyroidism. Therefore, abrupt withdrawal of propranolol may be followed by an exacerbation of symptoms of hyperthyroidism, including thyroid storm. Propranolol may change thyroid function tests, increasing T_4 and reverse T_3, and decreasing T_3.

IN PATIENTS WITH WOLFF-PARKINSON-WHITE SYNDROME, several cases have been reported in which, after propranolol, the tachycardia was replaced by a severe bradycardia requiring a demand pacemaker. In one case, this resulted after an initial dose of 5 mg propranolol.

PRECAUTIONS. GENERAL: Propranolol should be used with caution in patients with impaired hepatic or renal function. INDERAL (propranolol HCl) is not indicated for the treatment of hypertensive emergencies.

Beta-adrenoreceptor blockade can cause reduction of intraocular pressure. Patients should be told that INDERAL may interfere with the glaucoma screening test. Withdrawal may lead to a return of increased intraocular pressure.

CLINICAL LABORATORY TESTS: Elevated blood urea levels in patients with severe heart disease, elevated serum transaminase, alkaline phosphatase, lactate dehydrogenase.

DRUG INTERACTIONS: Patients receiving catecholamine-depleting drugs such as reserpine should be closely observed if INDERAL is administered. The added catecholamine-blocking action may produce an excessive reduction of resting sympathetic nervous activity which may result in hypotension, marked bradycardia, vertigo, syncopal attacks, or orthostatic hypotension.

Caution should be exercised when patients receiving a beta blocker are administered a calcium-channel-blocking drug, especially intravenous verapamil, for both agents may depress myocardial contractility or atrioventricular conduction. On rare occasions, the concomitant intravenous use of a beta blocker and verapamil has resulted in serious adverse reactions, especially in patients with severe cardiomyopathy, congestive heart failure or recent myocardial infarction.

Aluminum hydroxide gel greatly reduces intestinal absorption of propranolol.

Ethanol slows the rate of absorption of propranolol.

Phenytoin, phenobarbitone, and *rifampin* accelerate propranolol clearance.

Chlorpromazine, when used concomitantly with propranolol, results in increased plasma levels of both drugs.

Antipyrine and *lidocaine* have reduced clearance when used concomitantly with propranolol.

Thyroxine may result in a lower than expected T_3 concentration when used concomitantly with propranolol.

Cimetidine decreases the hepatic metabolism of propranolol, delaying elimination and increasing blood levels.

Theophylline clearance is reduced when used concomitantly with propranolol.

CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY: Long-term studies in animals have been conducted to evaluate toxic effects and carcinogenic potential. In 18-month studies in both rats and mice, employing doses up to 150 mg/kg/day, there was no evidence of significant drug-induced toxicity. There were no drug-related tumorigenic effects at any of the dosage levels. Reproductive studies in animals did not show any impairment of fertility that was attributable to the drug.

PREGNANCY: Pregnancy Category C. INDERAL has been shown to be embryotoxic in animal studies at doses about 10 times greater than the maximum recommended human dose.

There are no adequate and well-controlled studies in pregnant women. INDERAL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

NURSING MOTHERS: INDERAL is excreted in human milk. Caution should be exercised when INDERAL (propranolol HCl) is administered to a nursing woman.

PEDIATRIC USE: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS. Most adverse effects have been mild and transient and have rarely required the withdrawal of therapy.

Cardiovascular: Bradycardia, congestive heart failure, intensification of AV block, hypotension, paresthesia of hands, thrombocytopenic purpura, arterial insufficiency, usually of the Raynaud type.

Central Nervous System: Light-headedness, mental depression manifested by insomnia, lassitude, weakness, fatigue, reversible mental depression progressing to catatonia, visual disturbances, hallucinations; vivid dreams; an acute reversible syndrome characterized by disorientation for time and place, short-term memory loss, emotional lability, slightly clouded sensorium, and decreased performance on neuropsychometrics. For immediate formulations, fatigue, lethargy, and vivid dreams appear dose related.

Gastrointestinal: Nausea, vomiting, epigastric distress, abdominal cramping, diarrhea, constipation, mesenteric arterial thrombosis, ischemic colitis.

Allergic: Pharyngitis and agranulocytosis, erythematous rash, fever combined with aching and sore throat, laryngospasm and respiratory distress.

Respiratory: Bronchospasm.

Hematologic: Agranulocytosis, nonthrombocytopenic purpura, thrombocytopenic purpura.

Auto-Immune: In extremely rare instances, systemic lupus erythematosus has been reported.

Miscellaneous: Alopecia, LE-like reactions, psoriasiform rashes, dry eyes, male impotence, and Peyronie's disease have been reported rarely. Oculomucocutaneous reactions involving the skin, serous membranes and conjunctivae reported for a beta blocker (practolol) have not been associated with propranolol.

DOSAGE AND ADMINISTRATION. INDERAL LA provides propranolol hydrochloride in a sustained-release capsule for administration once daily. If patients are switched from INDERAL Tablets to INDERAL LA Capsules, care should be taken to assure that the desired therapeutic effect is maintained. INDERAL LA should not be considered a simple mg-for-mg substitute for INDERAL. INDERAL LA has different kinetics and produces lower blood levels. Retitration may be necessary, especially to maintain effectiveness at the end of the 24-hour dosing interval.

HYPERTENSION—*Dosage must be individualized.* The usual initial dosage is 80 mg INDERAL LA once daily, whether used alone or added to a diuretic. The dosage may be increased to 120 mg once daily or higher until adequate blood-pressure control is achieved. The usual maintenance dosage is 120 to 160 mg once daily. In some instances a dosage of 640 mg may be required. The time needed for full hypertensive response to a given dosage is variable and may range from a few days to several weeks.

ANGINA PECTORIS—*Dosage must be individualized.* Starting with 80 mg INDERAL LA once daily, dosage should be gradually increased at three- to seven-day intervals until optimal response is obtained. Although individual patients may respond at any dosage level, the average optimal dosage appears to be 160 mg once daily. In angina pectoris, the value and safety of dosage exceeding 320 mg per day have not been established.

If treatment is to be discontinued, reduce dosage gradually over a period of a few weeks (see WARNINGS).

MIGRAINE—*Dosage must be individualized.* The initial oral dose is 80 mg INDERAL LA once daily. The usual effective dose range is 160-240 mg once daily. The dosage may be increased gradually to achieve optimal migraine prophylaxis. If a satisfactory response is not obtained within four to six weeks after reaching the maximal dose, INDERAL LA therapy should be discontinued. It may be advisable to withdraw the drug gradually over a period of several weeks.

HYPERTROPHIC SUBAORTIC STENOSIS—80-160 mg INDERAL LA once daily.

PEDIATRIC DOSAGE—At this time the data on the use of the drug in this age group are too limited to permit adequate directions for use.

*The appearance of these capsules is a registered trademark of Ayerst Laboratories.

REFERENCES:

1. INDERAL LA National Compliance Evaluation Program. Data on file, Ayerst Laboratories.
2. Ravid M, Lang R, Jutrin I: The relative antihypertensive potency of propranolol, oxprenolol, atenolol, and metoprolol given once daily. *Arch Intern Med* 1985; 145:1321-1323.

R 7119 587

Ayerst

AYERST LABORATORIES
New York, NY 10017

© 1987 Ayerst Laboratories

Summary of Council Minutes

Meeting of April 6, 1986
Marriott's Pavilion, St. Louis

Dr. T. J. Cooper was elected chairman of the Council and thereby became the presiding officer. Dr. Marvin Singleton was elected vice-chairman of the Council.

Drs. Berry Ivy and Jay Meyer were re-elected to their offices of MSMA secretary and MSMA treasurer.

Meeting of May 31, 1986
Inn at the Grand Glaize, Lake of the Ozarks

The formation of a new SuperPAC category for contributors of larger MMPAC donations was announced.

Dr. Jordan Burkey, editor of *Missouri Medicine*, renominated the journal's editorial board for a new term. The Council approved his nominations.

Convention sites for 1988 and 1989 were approved. The Hyatt Regency, Kansas City, will be host for the March 17-20, 1988, meeting. St. Louis will be the 1989 site.

Councilors heard a report on the MedAssist Program (H.B. 1337), which asks for a 1-cent state sales tax to be earmarked for health care for the medical indigent in Missouri. Physicians gave $250 million in uncompensated care in 1985. The Council voted to support MedAssist.

The 1986 report of the *Missouri Medicine* Editorial Board was approved. Among other things, the Board expressed its opinion that State Board of Registration for the Healing Arts disciplinary actions not be published in the journal. Board members also debated the merits of running a political advertisement of Richard Gimpelson, M.D., followed by a discussion of review criteria for scientific manuscripts. The board voted to continue meeting annually.

Councilor-Advisors to the various committees and commissions were appointed. The 1986-1987 Sunset Committee was named.

Councilors approved the report of the Commission on Continuing Medical Education and Health Manpower. The Commission recommended various topics for the 1987 Annual Convention General Session, and it asked that MSMA obtain information from the Department of Health regarding distribution of health manpower in the state.

On the subject of Annual Convention scientific programs, the Commission members agreed to develop an evaluation sheet for program participants. In this way, the CME program's effectiveness can be continuously monitored. Specialty organizations, it was agreed, should be held to MSMA Convention Guidelines. In addition, criteria contained in "Essentials for Accreditation of Sponsors for CME" were approved for MSMA use.

It was reported that the MSMA's IPA/HMO study group had met with CharterMed, HMO-management firm. The proposal received was referred, by the Council, back to the ad hoc committee for a future report and possible proposals.

Following a report of the Physician Rehabilitation Committee, the Council approved the hiring of Dr. Eileen Duggan as part time Medical Director of the Committee. The Committee's '86 budget was also approved. This budget includes costs for running a Monitored Treatment Program similar to one established in Oregon.

The Council heard a report from the Missouri Patient Care Review Foundation. Among other things, the PRO's quality-oriented approach to case review was emphasized. After some discussion, it was voted to support the MPCRF in its effort to win the PRO contract for the next two years. There were three dissenting votes.

It was suggested that the Foundation provide the Association with a written report of its activities and experiences, to be distributed to all MSMA members.

The AMA delegation reported that the MSMA's 1986 resolution on abortion could not be accepted by the AMA as written.

Meeting of August 23, 1986
Holiday Inn, Lake of the Ozarks

The nomination of J. Michael Conoyer, M.D., for a seat on the Board of Registration for the Healing Arts was endorsed by the Executive Committee.

Dates for 1987 workshops on establishing a medical practice, third-party reimbursement, and practice marketing were approved.

The Council voted to publicize the opinion that directed blood donations "do not hold an advantage" over voluntary donation, and that the MSMA urges blood donations continue to be made as in the past.

The MSMA Auxiliary reported on its plans for distribution of an in-home vision test for pre-schoolers. The Council added its endorsement to the project.

Reports from the Commissions on Medical Economics and Medical Education, and the Committee to Preserve Health Care were approved.

Recommendations from the Medical-Economics Commission included dropping two prior recommendations, approving Resolution #5 (A-86), voting down Resolution #15, and referring Resolutions #18, #19 and #27 for further study and rewriting.

From the Commission on Medical Education meeting of Councilor District Directors came the recommendation that staffed county medical societies be accredited as CME sponsors, and that site survey recommendations be presented to the Council District Director on CME for approval.

The report from the Committee to Preserve Health Care included an accounting of discussions with the Missouri Association of Trial Attorneys. Agreements were reached for further study of pre-trial screening panels, alternative dispute resolution, the statute of limitations and obstetrical malpractice suits, and the new insurance, disciplinary and reporting requirements under S.B. 663.

The Council voiced its support of Dr. Melvin Kasten for an AMPAC Board of Directors seat, and Dr. Marvin Singleton for a seat on the AMA Council on Legislation.

The AMA PADS program, dealing with halting the diversion of prescription drugs, was also given endorsement on the state level. The Commission on Interspecialty Medicine was charged with studying the issue further.

The nomination of Dr. James Whittico for the AMA Dr. Benjamin Rush Award, and the Ewing Kaufmanns for the AMA Citation of a Layman were announced.

The Council also agreed to nominate and support Dr. Hugh Stephenson for the AMA Council on Medical Education in 1988.

The report of the Committee on Legislative Affairs was approved. Items discussed were the Medicaid formulary, insurance benefit payment in accident cases, MedAssist, the Family Practice Residency bill, licensing of allied health personnel, and reimbursement for OB care under Medicaid. Resolutions from the 1986 convention were also reviewed.

The Council accepted reports from the Physician Rehabilitation Committee. Included were recommendations for implementation of the Monitored Treatment Program as soon as possible, approval of the "Agreements" under the program, continuation of the Committee's answerability to the MSMA Council and House, and a request for funding to support a Program Coordinator before the end of 1986.

Reports from the Commission on Public Affairs and Medical-Legal Affairs were also accepted.

The Medical-Legal Commission took action on several 1986 resolutions. It recommended Resolution #22 not be accepted, that Resolutions #25 and #26 be studied further, that the "expert witness" portion of the MSMA Bylaws be published in *Missouri Medicine* to fulfill Resolution #28, and that Resolution #23 not be acted upon, as it is already Missouri law. The Commission chose to hold Resolution #29 over for future action.

On other matters, the Commission requested more information about alternative dispute resolution, considered a resolution making charitable activities a requirement for hospital staff privileges, asked further MSMA study of public hospitals and sovereign immunity, and sought information and possible draft legislation on durable power of attorney.

The Commission on Public Affairs recommended production of brochures for Medicare patients, the addition of non-physician input on MSMA publications, adoption of a Substitute Resolution #12 (A-86), publicity for MSMA public relations materials, and a media relations course for physicians.

The AMA delegation reported it would be reworking the MSMA resolution on abortion from the 1986 convention, for possible resubmission at the AMA interim meeting.

Meeting of December 13, 1986
Ramada Inn, Jefferson City

It was reported that the new Resident Physician Section and Hospital Medical Staff Section would be having their organizational meetings soon.

Councilors were cautioned that new "participating" Medicare agreements would be required with little time or opportunity for thorough study.

Workshops for 1987 on third-party reimbursement and medical office management were given Council approval.

Councilors adopted the AMA position encouraging the use of protective headgear for horsemen, as MSMA policy.

A report from the Committee to Preserve Health Care was given. Topics considered by the Committee included the recent Supreme Court ruling on the tolling of the statute of limitations, meetings with the Missouri Association of Trial Attorneys and the Department of Health, and public information materials.

A permanent membership committee, composed of the vice councilors, was created.

The 1987 budget was approved, including funds to investigate the feasibility of an MSMA-sponsored IPA/HMO.

The Physician Rehabilitation Committee report was accepted. The report emphasized the importance of confidentiality in dealing with physicians in the Monitored Treatment Program, the appointment of Joanne Hodgman as program coordinator, and the need for quarterly meetings of the Committee.

The Council heard and approved a report on the Prescription Abuse Data Synthesis (PADS) program. The MSMA continues to work with the Missouri Department of Health, the AMA Steering Committee on Prescription Drug Abuse, and the legislature on the problem.

It was noted that the Jackson County Medical Society would become the Metropolitan Medical Society of Greater Kansas City in 1987.

The Council agreed to send the Governor a recommendation that a practicing physician's input be included on the Department of Health's "Plan for the Year 2000," as well as the Governor's Overall State Plan.

Following the expression of concern that information on national legislation is not being adequately disseminated, the Council voted to recommend greater AMA activity in this vein. In addition, the AMA and MSMA were urged to legally challenge rules and regulations more frequently.

There was considerable discussion of the DRG reimbursement proposal for hospital-based physicians.

The Committee on Legislative Affairs gave an extensive report on legislation that had been pre-filed for the 1987 Session. The Council voted to go on record in support of S.B. 111, the Clean Indoor Air Act.

CME accreditation of eight Missouri institutions was approved. The Council was notified that the MSMA had been granted reaccreditation for another four years.

The AMA delegation reported that Missouri's resolution on abortion had been approved for a re-statement by the House of Delegates. The resolution dealing with the dissemination of Council on Scientific Affairs reports was held over until a four-state feasibility study could be completed.

The Council voted to support Dr. Marvin Singleton's bid for a seat on the AMA Council on Legislation, and Dr. Richard Bradley's nomination for the Council on Medical Services, now pending before the AMA Board of Trustees.

A report was presented from a meeting of the executive committees of MSMA, MAOPS, and MHA. Among items discussed were a PRO update, Medicare denials, formation of a Missouri Super PRO, release of PRO data, professional liability and liability insurance, state legislation of interest to health professionals, and reimbursement of nurse midwives.

Meeting of January 31, 1987
Hilton Inn, Columbia

The Council was informed that First District Councilor Dr. Richard Hedges, N. Kansas City, had resigned his seat. Dr. Gary Dyer, Vice Councilor, filled the vacancy.

Voting proxies for MOMEDICO and MSMI stock were approved.

Councilors voted their approval of a plan to investigate the feasibility of instituting credit-card payment of dues. An AMA plan to allow installment payment of dues is under study, but results will not be available until late 1987, and MSMA would not be able to act on the plan until the dues year 1989.

Approval for opening a separate bank account for the Physician Rehabilitation Committee was given.

Dr. Jerry Meyer, Concordia, was named chairman of the new Membership Committee.

Dr. Jordan W. Burkey, Springfield, was approved for another year as editor of *Missouri Medicine.*

The Council heard and approved reports from the state's PRO, the Commission on Medical Economics, Third Party Medicine and Governmental Relations, the Ad Hoc Committee on Sunsetting, the Committee on Physician Rehabilitation, the Committee on Legislative Affairs, and the Committee to Preserve Health Care.

A preliminary report from the group studying the feasibility of an MSMA-sponsored IPA/HMO was received. Plans call for a mail survey of Missouri businesses and consumers, with results to be available in the spring of 1987.

Meeting of April 1, 1987
Tan-Tar-A, Lake of the Ozarks

The following dates were approved for Annual Convention: 1988 — March 17-20, Hyatt Regency, Kansas City, and 1989 — April 13-16, Marriott Pavilion, St. Louis.

None of the MSMA-sponsored insurance programs has requested any premium changes or policy changes for the upcoming year, although they will coordinate an extensive advertising campaign.

Mr. Royal O. Cooper, Executive Vice President, met with officials from Central Bank in Jefferson City regarding credit card dues payment. The bankers indicated minor accounting changes to accept credit card payment. However, it is not possible to implement installment billing for 1988. MSMA is awaiting the report on the pilot study on installment billing that currently is being conducted by the AMA in Michigan.

Currently, 80% of MSMA members have paid their dues. The Membership Committee, composed of Vice Councilors, plans to work with the component societies to increase membership.

H. Peter Ekern, M.D., MSMA President, asked each Councilor to provide a name of a delegate from his district to serve on the Nominating Committee. The Publications Committee and Editorial Board were reappointed for one year by Dr. Ekern, with one addition. David Trantham, M.D., Cape Girardeau, is the new member of the Editorial Board. His specialty is emergency medicine.

Mrs. Gayle Vilmer reminded the Council of the Auxiliary Auction to benefit AMA-ERF and MSMF as well as the PAC Breakfast featuring Missouri's Attorney General William Webster.

Reporting on the current status of state legislation was John Matthews, M.D., Chairman of the Committee on Legislative Affairs.

The Commission on Medical-Legal Affairs presented a report; the complete report is printed on page 379.

Carol Williams, M.D., asked for Council approval of the following resolution:

"*Resolved,* that the MSMA prepare a *Physician's Handbook on Contracting* which would be designed to help Missouri physicians deal intelligently with the onslaught of physician contracting."

The resolution carries a fiscal note of $10,000-$12,000. The Council approved the resolution.

The Committee to Preserve Health Care reported that their recent meeting with the Missouri Association of Trial Lawyers resulted in these agreements: a) Lend no support to SB 341 or SB 334; b) seek amendment to the Tort Reform Bill to exempt medical malpractice insurers. The Committee discussed SB 215 which would provide malpractice insurance coverage for physicians under the state Legal Expense Fund when they furnish services at the request of the local health department, and agreed to support the bill when substitute language was adopted.

John Mihalevich, Chairman of the Physician Rehabilitation Committee (PRC), requested that MSMA direct the PRC to establish a separate financial account for the Committee's operations. Following lengthy discussion, motion was made to table the matter for further study.

The Council voted to support Hugh E. Stephenson Jr., M.D., for appointment to the AMA Continuing Medical Education Advisory Committee.

Dr. Hugh Stephenson announced that the Audrain County Medical Society presented a picture of H. Peter Ekern, M.D., to the University of Missouri-Columbia. Dr. Ekern is the first MSMA president who is a graduate of the four-year medical school at UMC. ■

The Shealy Institute
A PRACTICAL SOLUTION
TO ONE OF YOUR MOST
FRUSTRATING PATIENT PROBLEMS
The Logical Extension of
Your Professional Services —
- Our Institute pioneered the comprehensive "Pain Rehabilitation" concept.
- We introduced the pain control techniques most often used in rehabilitating chronic pain patients — facet rhizotomy, TENS, PENS, Biogenics®, and neurochemical profiling.
- We continue to be the recognized leader in the field. Our success is measured by your patient's ability to return to work, withdraw from drugs, and control pain intensity.
- Since we specialize in pain management, your patient returns to you after treatment. We are available as consultants at any time. We are the only a*ccredited* pain management clinic in the four state area. Our services are covered by most insurance companies and worker's comp programs.

carf
CARF
A Nationally Accredited
Rehabilitation Facility

Send for a free copy of
the Shealy Pain Report.
The Shealy Institute
3525 S. National
Springfield, MO 65807
417-882-0850
1-800-492-4171, Ext. 35

Give to the future
of medicine.
Support Missouri
State Medical Foundation.
P.O. Box 1028
Jefferson City, MO 65102

my•o•pia

\mī-ˈō-pē-ə\: deficiency of foresight

SYMPTOMS: Most often observed in professionals who are inundated with day-to-day responsibilities. Dedicated to the needs of others, subject becomes focused on today… at the expense of tomorrow's full potential. May have complicated, expensive retirement plan with scattered investments and sometimes unfocused or nonexistent financial objectives. The lack of sufficient time and professional guidance may result in feelings of anxiety over future well-being of self, family and staff.

DIAGNOSIS: Financial myopia (common to this overworked peer group).

COMPLICATIONS: May not know where to turn for advice that is professional, comprehensive, personalized, flexible, diverse and *painless.*

R_x: As a member of the Missouri State Medical Association, you are eligible for treatment by highly qualified retirement planning specialists—no charge for initial consultation or subsequent quarterly or semiannual checkups. For security and peace of mind tomorrow (and possibly lower costs), call today for Michael Grimes - Director or Thomas Knapko - Associate Director at E.F. Hutton. Call collect 314-725-9690.

CONTRAINDICATIONS: None.

MISSOURI STATE MEDICAL ASSOCIATION
A membership benefit offered in conjunction
with Trust Consultants, Inc., and E.F. Hutton.

Committee and Commission Reports

Committee on Publication

The 83rd volume of *Missouri Medicine* contained 34 scientific articles, 15 special articles and each issue had an average circulation of 7,102.

Throughout the year, the cover of *Missouri Medicine* featured original artwork and photographs by Missourians. All issues except the August Directory issue contained scientific articles authored by MSMA members. The July issue presented a summary of the meetings and actions taken by the 1986 House of Delegates at the Association's 128th Annual Convention. Special features included "Making Progress on Malpractice" in January issue; "The 'Industrialization' vs. the Professionalism of Medicine" in the April and May issues; and an interview with Robert Harmon, M.D., director of Missouri's Department of Health in the September issue.

A highlight of the year came from Sandoz Pharmaceuticals who honored *Missouri Medicine* for its excellence in design and editorial qualities. Dr. Jordan Burkey, editor, accepted the first place honors in medical journalism at the 128th Annual MSMA Convention held in St. Louis, April 3-6, 1986. The MSMA Council reappointed Jordan W. Burkey, M.D. of Springfield as editor, and Donald G. Sessions of St. Louis as associate editor. Managing editor Laurel Ellison completed the May issue of the journal, then resigned her position at MSMA to become the Director of Public Information for the Missouri Department of Health. She was replaced by Susan Flanigan Gold who began at MSMA on May 5, 1986. The editors wish to express appreciation to all who submitted scientific manuscripts and to those others who also contributed material and input to our journal. The complete financial report for the 1986 journal is included in the financial statement of the Missouri State Medical Association. The report is published in the March 1986 issue of *Missouri Medicine* and is included in the Delegates Handbook.

Jordan W. Burkey, M.D., *Chairman*
Donald G. Sessions, M.D.
Donald E. Menchetti, M.D.
John K. Layle, M.D.
Jerry W. Templer, M.D.
Earl R. Schultz, M.D.

Ad Hoc Committee on "Sunsetting"

The Ad Hoc Committee on Sunsetting met by conference call on January 21, 1987.

After reviewing the current MSMA policy manual, the Ad Hoc Committee members agreed to recommend the deletion of 10 policies from the listing. These policies are:

1. Abortion — An abortion should be considered illegal if performed by anyone other than a licensed physician in a place other than a licensed hospital.
2. Amphetamines, Use — The MSMA asks its members to restrict their use of amphetamines and other stimulant drugs to the treatment of specific, well-recognized medical indications such as narcolepsy, hyperkinesia, mild depression and starter doses for obesity.
3. Confidentiality, Medical Records — The MSMA encourages the enactment of legislation which would fully protect the confidentiality of medical records and of professional and peer review activities which are based on review and evaluation of such records.
4. Confidentiality, MHDC — Missouri physicians strongly encourage the Missouri Health Data Corporation Board of Directors to retain control of their confidential information.
5. Education, Patient — The MSMA adopts the following guidelines for third party reimbursement for patient education:
   1. The goal of patient education programs shall be to improve health and the delivery of healthcare services through cooperative efforts of informed patients and health professionals.
   2. Patient education programs shall be provided under the guidance of an educational committee comprised of members of the health professions, and administration, and consumers.
   3. Patient education committees will be responsible for the establishment, maintenance, and evaluation of all patient education programs.
   4. Patient education services shall consist of planned efforts, with stated goals and objectives, based upon identifiable needs of patients and the resources of the health professionals.
   5. Patient education services shall be provided under the direction of a practicing physician and a trained educator and must be appropriate to the immediate health needs of the patient.
   6. Participation in such programs shall be by prescription of a practicing physician and shall be documented in the patient's chart.
6. HTLV-III Antibody Testing & AIDS — The MSMA urges the U.S. Department of Health and Human Services to allow blood collection centers to continue testing for HTLV-III antibody, but asks that the centers be relieved of the responsibility of supplying test results to test subjects until appropriate scientific knowledge concerning the test and AIDS is available.
7. Hospital, Preadmission Certification — The MSMA will continue to oppose implementation of hospital preadmission certification.
8. Optometrists, Drugs — The Association opposes the expansion of the Missouri Optometric Act which would allow the use of drugs in the practice of optometry.
9. Physician Fees — The MSMA requests its members to voluntarily freeze their fees for all patients for one year. In addition the MSMA requests its members to continue to consider the financial circumstances of each patient and to accept reduced fees when warranted.

10. PSRO — The MSMA will work to insure that patient care is of a high quality, appropriate duration and is rendered in appropriate setting at a reasonable cost. The MSMA supports the elimination of all government directed peer review programs, including PSRO.
    The MSMA supports requiring compatible peer review of the medical services offered in public and private medical facilities and in all governmental health care facilities.

In addition, the Committee recommends that the following policies be more closely reviewed for their timeliness and accuracy. While the Committee believes the Association is still in favor of the stances on these issues, circumstances have changed sufficiently over time to warrant a re-working or reconsideration. The committee suggests new resolutions be introduced in the 1987 House of Delegates in order to modify these policies.

1. Alcoholism, Adjunctive Treatment — The MSMA supports the use of the adjunctive treatment resources of Alcoholics Anonymous, Al-Anon, Ala-Teen and the National Council of Alcoholism local affiliate by physicians in treating patients.
2. Alcoholism, Pharmacy Liaison — The MSMA supports a closer cooperation between physicians and pharmacists in a public education program regarding the problem of abuse of legally prescribed drugs and alcohol. The professional education of physicians and pharmacists should include courses in these areas.
3. Alcoholism, Public Education — A uniform policy regarding alcohol and drug abuse education in schools is supported. In-depth education should be provided to Driver Education classes regarding drug and alcohol abuse as related to traffic safety.

(The Committee suggests these policies be rewritten in light of current resources and activities, including the MSMA Committee on Physician Rehabilitation.)

4. Death, Definition — A person shall be considered dead if in the announced opinion of a physician, based on ordinary standards of medical practice, he has experienced an irreversible cessation of spontaneous respiratory and circulatory functions. In the event that artificial means of support preclude a determination that these functions have ceased, a person shall be considered dead if in the announced opinion of a physician, based on ordinary standards of medical practice, he has experienced an irreversible cessation of spontaneous brain functions. Death shall have occurred at the time when the relevant functions ceased.

(The current legal definition of death contains parallel wording, with the addition of the phrase "total and irreversible cessation of all brain function, including the brain stem.")

Fred D. Peterson, M.D., *Chairman*
Robert V. Tompson, M.D.
Raymond J. Caffrey, M.D.
Francis M. Corry, M.D.
Arlen D. Winksy, M.D., *Speaker of the House*

Committee on Legislative Affairs

Again this year, your Committee on Legislative Affairs has wrestled with a myriad of issues before the Missouri General Assembly which could affect your patients and your profession.

Nearly 250 of the approximately 1,300 bills introduced into the General Assembly would impact on medicine and are being tracked by the MSMA. The Association has provided expert testimony on several bills, furnished written testimony and suggested amendments on many other bills and continues to lobby legislators on all matters of importance.

The MSMA has actively supported bills to expand the state's Family Practice Residency Program (Senate Bill 52), provide that physicians who furnish OB services at the request of a local health department be covered for professional liability under the state Legal Expense Fund (SB 215), establish a system for registration . . . not licensure . . . of several allied health groups (HB 670), increase physician reimbursement for services provided to Medicaid patients (HB 11), set standards which prohibit smoking in many public places (HB 206/SB 111) and several public health measures.

The Association has actively opposed bills which would provide direct third-party payment to nurses for "nursing services" (HB 44) and mandate that Medicaid directly reimburse nurses for similar services (HB 465). Also opposed were measures intended to prevent physicians from employing physical therapists or owning a PT clinic (HB 202) and one to permit the legal practice of lay midwifery in Missouri (HB 393). Amendments have been offered to eliminate objectionable language from other bills.

The MedAssist bill, which is intended to provide state-funded insurance for the uninsured in Missouri, is likely to be debated by the House this week. The original idea behind HB 146 was to provide basic medical and hospital coverage for those individuals who were not eligible for Medicaid, but were unable to afford private insurance. The coalition which developed the final language in HB 146, of which MSMA is one member, decided instead to offer a very comprehensive coverage bill and the high cost of the measure has caused problems. Initially the coalition pushed for a one-cent sales tax to fund the more than $400 million needed for the concept. However, that proposal has not drawn legislative support and alternative funding is now being discussed. More will be known when the bill is debated.

The Association is also working closely with the Board of Registration for the Healing Arts and key legislators in rewriting the state's Medical Practice Act (HCS 669, 809, 852). The Board began receiving criticism from the Legislature during the malpractice hearings held last year around the state. In cases where physician negligence was obvious, the Board informed the Legislature it was unable to revoke the physician's license due to weak state statutes. Some legislators, frustrated at the Board's seeming impotence in a few areas, now are experiencing a "knee jerk" reaction and are proposing over-strenuous controls for the Board. MSMA has informed legislators that organized medicine wants the Board to have sufficient powers to prevent "bad doctors" from practicing in the state, but also wants to insure that the vast majority of physicians deserve protection from unduly restrictive statutes.

The Committee On Legislative Affairs would like to express its appreciation to those MSMA "Key Contacts" who have taken the time and effort to get to know their State Legislators, often contribute to their campaigns and then keep them informed of medicine's views of important issues. "Grassroots" involvement is still the most vital form of lobbying available. Legislators are interested in what their constituents have to say and want to know what physicians feel about medically-related bills.

In addition, the Committee would like to give special credit to those MSMA members who have taken part in the Physician Involvement Program (P.I.P.) by coming to Jefferson City to visit their legislators. It is impossible to measure the impact of such visits, but many Senators and Representatives have expressed their appreciation that physicians have taken the time to personally visit them and share their opinions on issues.

For that great majority of physicians out there who still refuse to become involved in the political arena, I would again caution you that next year (or the next) when a bill you dislike becomes law and you complain to the Association that "the MSMA should have done something," be prepared to tell us exactly what *you* did to influence your State Senator and Representative. Remember, an Association cannot pass or defeat legislation . . . it is the action of members that will dictate our success or failure!

John I. Matthews, *Chairman*
H. Peter Ekern
Larry G. Piepergerdes
T. J. Cooper
Marvin A. Singleton
Donald P. Miller
William H. Marshall
Kenneth Rall
Melvin Kasten
Mrs. Charles Barbee
Mr. Mike Knudsen

Physician Rehabilitation Committee

The Physician Rehabilitation Committee met on May 6, 1986, via conference call, June 27, 1986, August 2-3, 1986, November 9, 1986, and January 21, 1987, via phone conference.

The members of this committee recommended that the committee name should be changed from the Impaired Physician Committee to the Physician Rehabilitation Committee. This change more appropriately reflects the goals and objectives of this committee.

Due to the increased activity of this committee, it was evident that a medical director was needed to administer the MSMA Physician Rehabilitation Program. Eileen Duggan, M.D. was hired as a part-time medical director to assume full responsibilities of administering the program effective August 1, 1986.

The Bureau of Narcotics and Dangerous Drugs requested support from the Physician Rehabilitation Program in following, monitoring, and assessing the status of physicians that are identified by the Bureau. The State Board of Registration for the Healing Arts also expressed a need for more structured supervision of those physicians that they are monitoring.

The Monitored Treatment Program was initiated to be responsive to these needs.

The Monitored Treatment Program is a confidential monitoring program under the auspices of the Physician Rehabilitation Committee which is in itself therapeutic and which facilitates development of a sound recovery program for physicians that have an addiction. This program provides long-term monitoring, therapeutic group activities, support, and therapeutic program coordination to recovering alcoholic and addicted physicians.

Physicians will enter the Monitored Treatment Program by one of two avenues: those that are referred voluntarily and those that are mandated to enter the program by the State Board of Registration for the Healing Arts and the Bureau of Narcotics and Dangerous Drugs.

Physicians that enter the Monitored Treatment Program are asked to enter into a voluntary agreement or a mandated agreement as may be appropriate. These agreements set forth the program's therapeutic expectations that will enable the physician to resume a productive practice of medicine.

The committee members reaffirmed the importance of maintaining the highest degree of confidentiality possible. Confidentiality is the foundation on which the Monitored Treatment Program was established. The Monitored Treatment Program is a medical program and not a committee activity. The Physician Rehabilitation Committee has the responsibility for supervising the administrative functions of the Monitored Treatment Program.

On November 8-9, the MSMA sponsored an Intervenors' Seminar. While attendance at this seminar was not as large as expected, the committee felt that it was preferable to have a small group of physicians who are trained and willing to serve as the nucleus for programs' intervenors. This nucleus of intervenors will gradually increase as the graduates of the Monitored Treatment Program become intervenors.

As case findings increased, the medical director was placed in a position of not only administering the overall program but was also responsible for coordinating the physician's therapeutic programs. The committee recommended that a program coordinator be employed to coordinate the individual physician's programs. The job qualifications and job description for this position is as follows:

Job Qualifications

1. Experience in working in the addictions field. Preferably an "Addictionologist" with a background from nursing, social work or counseling. Certification in addictionology not essential but desirable.
2. Administrative experience from the perspective of running a program as well as good "people-skills" to facilitate meeting a wide variety of individuals from legislators to clergy, drug addicts to auxiliary.
3. Computer experience is desirable, but not essential.

Job Description

1. Keep confidential records of all clients which would include MTP contracts, records from treatment facilities, attendance records of AA/NA meetings, reports of body fluid analyses, notes regarding conversations with client monitors, correspondence regarding the client from official agencies or referring sources.
2. Coordinate and participate in collecting and processing of body fluid specimens of MTP clients.
3. Contact client monitors on a periodic basis, depending upon the client's progress in the program.
4. Coordinate weekly MTP therapy groups. The Program Coordinator would be expected to personally conduct these groups unless it is physically impossible, due to geographic constraints. In that case local group leaders would be employed and the Program Coordinator would communicate periodically with these leaders, or on an emergency basis if the need arises due to client relapse.
5. Participate in teaching programs to the medical and para-medical community regarding the MTP. The program coordinator would be instrumental in coordinating interventions, as well as participating in some of the interventions.

6. Compile periodic reports for the Physician's Rehabilitation Committee, the Missouri State Medical Association, the State Board of Healing Arts and the BNDD. These reports would include financial data as well as summaries of client records regarding program compliance. It is desired that the Program Coordinator have knowledge regarding computerizing the data. This is particularly desirable so that Missouri can compare our data with other states.
7. Maintain on-going contact with clients. It is assumed that this will usually be done within the weekly therapy sessions, however, it may be necessary to arrange individual sessions for clients in out-lying areas who are in treatment groups not led by the Program Coordinator.

JoAnne Hodgman assumed the role of program coordinator on November 1. In addition to working closely with individual physicians she will be coordinating weekly treatment groups in three locations in Missouri — St. Louis, Kansas City and Springfield.

To defray the monthly costs incurred in these weekly therapeutic groups a monthly fee of $200.00 will be charged to each physician in the Monitored Treatment Program.

As of January 1, 1987, the Physician Rehabilitation Committee was expanded to provide representation for the Missouri Association of Osteopathic Physicians and Surgeons and the State Board of Registration for the Healing Arts. These organizations have agreed to financially support the Monitored Treatment Program during the 1987 fiscal year. The Missouri Association of Osteopathic Physicians and Surgeons and the State Board of Registration for the Healing Arts will provide representatives to serve on this committee.

We would like to acknowledge the contribution of $5000 from Risk Control Associates for the second year in a row. RCA is the only malpractice carrier in the state that has made a contribution to the program.

John A. Mihalevich, Jr., *Chairman*
John J. O'Hearne
John P. Carmody
Joseph B. Kendis
Hugh C. Bartlett
Edward C. Felker, III
Henry F. Domke
Donald McIntosh
Carroll Patterson
James S. Carter
Carl Pearman
Mrs. Kris Shaw
Ron Hubbard
C. Preston Chester
Jim Williams
Mrs. Patricia Molnar

Commission on Public Affairs

The MSMA Commission on Public Affairs met July 26, 1986, in Columbia.

Commission members viewed public service announcements that had been distributed to television stations with an MSMA tag line. In addition, they heard follow-up reports on 1985 recommendations and on-going projects.

The Commission, after discussing future production of patient brochures, decided to recommend the inclusion of non-physician input in MSMA brochures. For example, the AARP would be invited to share their views on a Medicare brochure.

In light of this discussion, the Commission also recommended the production of two brochures for Medicare patients and their families. One would detail patient rights under the program, and the other would be a shopping guide for so-called "Medigap" insurance.

Acting on a referral from the Council, the Commission recommended the adoption of the AMA position on human rights. This action would fulfill Resolution #12 (A-86). The substitute resolution reads as follows:

> *Resolved*, that the Missouri State Medical Association continue its support of the dignity of the individual, the importance of human rights and the sanctity of human life, and its opposition to any discrimination based on an individual's ethnic origin, religious or political beliefs and any other such reprehensible policies.

After discussion of the AMA's public awareness activities, the Commission recommended that the MSMA's public relations materials and information, including that from the AMA, be publicized periodically in the *Journal* as a reminder of their availability.

Commission members also recommended holding a "How to talk to the media" course at the MSMA Annual Convention.

Jo-Ellyn M. Ryall, M.D.,
Chairman
Edmond Cabbabe, M.D.
Michael J. Bukstein, M.D.
Carlo P. Caciolo, M.D.
Marla J. Tobin, M.D.
Carl Myers, M.D.
Barry J. Bass, M.D.
Fritz A. Byrum, M.D.
William A. Turner, M.D.
Robert E. Gardner, M.D.
Victoria Gunn, M.D.
Mohammad N. Akhter, M.D.
David Fleming, M.D.
Ms. Shari Dobkin
Dorothy Reister, M.D.,
Councilor-Advisor

Commission on Medical Economics, Third Party Medicine and Governmental Relations

The Commission on Medical Economics, Third Party Medicine and Governmental Relations met on July 12, 1986 and January 17, 1987 in Columbia, Missouri. The July meeting reviewed two motions held from January 25, 1986.

The first dealt with some administrative body to monitor "alternative delivery systems." Under Missouri Revised Statutes 354.010 to 354.175 the Division of Insurance is the agency authorized to monitor. The second motion dealt with a Peer Review Oversight Committee to review denials made by Missouri Patient Care Review Foundation. The Commission determined such a committee would violate the confidentiality requirements of PRO.

At the same meeting, the Commission discussed several resolutions which were recommended to be implemented. Resolution #18 (A-86) "Self Insured Health Insurance Program," the Commission felt as though this resolution was in violation of existing law. This resolution was referred back to the Missouri State Medical Association's Council. Resolution #27 (A-86) "Due Process for Expropriated Earned Income," the Commission encouraged new language to be developed and it was referred to the MSMA Council to be rewritten.

The January meeting received an intensive update on most of the state Medicaid programs. Mr. Jim Peresta, Assistant Medicaid Administrator, centered discussions around the four part Governors Budget. It was reported that Medicaid vendor payments have increased over the last several years, from FY 1976 of $121.8 million to FY 1986 of $512.6 million. The Governor further recommended that Medicaid coverage be extended for pregnant women and children of the working poor.

Other discussion centered on "ASAP" and "Verify" which currently are in the experimental state. Between January and the end of May 1987, Medical Services are converting to the January 1985 HCFA 1500 form. As of April 1, 1987, physicians will need to bill on HCFA 1500 (1-84).

In further actions, the Commission discussed various reports on Medicare information, participating vs. non-participating, Reagan's budget proposals, and MAAC billed amounts. The chairman recommended that MSMA submit a resolution to the Convention (April 1988) which addresses the issue of participating/non-participating physicians. This information should be shared with the total MSMA membership.

Lastly, the Commission heard a report from the MSMA staff on the temporary injunction filed by the AMA concerning the requirement that physicians make immediate decisions to become a participant under Medicare.

Thomas R. Stubbs,
Chairman
Gerald Moritz
Arturo C. Montes
Jeff Schulman
Gerald Hoxworth
Milamari A. Cunningham
Richard L. Johnson
George D. Flanigan
John Davidson
Joseph A. Kahn
Stanley S. Peterson
Howard H. Roberts
B. A. Moranville
Nicholas J. Colosi
C. C. Reynolds
William Huffaker, *Councilor Advisor*
Mr. James Reardon

Commission on Continuing Education and Health Manpower

The Commission on Continuing Education and Health Manpower met on May 12 via a conference call.

The commission members discussed the mechanism to determine the distribution of health manpower by specialty, county, and age in the state of Missouri. This information would be of great assistance to the MSMA Physician Placement Program. The information regarding the distribution of health manpower in Missouri is readily available from the Department of Health. This information will be discussed during the next meeting of the commission.

The commission reviewed the specialty critiques, noting that there were only three specialty organizations that did not sponsor scientific programs or business meetings during the MSMA 128th Annual Convention.

The commission recommended that one of the following topics for the Friday General Session during the MSMA 129th Annual Convention, Marriott's Tan-Tar-A Resort, Lake of the Ozarks, Osage Beach, April 2-5, 1987: Quackery and Health Fraud; Bioethic Issues; Medical Education — Undergraduate — Graduate — Lifelong; Quality vs Cost Containment; Medicine and Media; and International Terrorism: What can we do about it?

While attending the various scientific programs, the MSMA members and guest physicians were able to obtain on Friday, April 4, 18 hours Category 1,14½ hours Elective Credits and 3½ hours Prescribed Credits and on Saturday, April 5, 31 hours Category 1, 17 hours Elective Credits and 16 hours Prescribed Credits.

The commission members discussed a mechanism to evaluate each of the scientific programs held in conjunction with the MSMA Annual Convention. This formal evaluation will be essential to the MSMA scientific program being accredited in May for Category 1 CME credit. One of the essentials of an accredited CME program set forth by the Accreditation Council on Continuing Medical Education states, "The sponsor shall evaluate the effectiveness of its overall continuing medical education program and component activities and use this information in its CME planning."

The commission will develop a program evaluation sheet that will be distributed at the various scientific programs in conjunction with the MSMA Annual Convention.

The commission reaffirmed its support of the Annual Convention Guidelines that will be distributed to each specialty organization sponsoring a scientific program.

Gary A. Dyer, *Chairman*
John Renner
W. Wayne Boydston
Luis Anglo
Edward Jenkins
Olga M. Blair
Victor G. Clever
William D. Bradshaw
Hiremathada Jayanandaiah
George D. Comfort
James Youngblood
Thomas J. Hopkins
George X. Trimble
Raymond O. Frederick
Alan L. Braun, *Councilor Advisor*

Commission on Medical-Legal Affairs

The Commission on Medical-Legal Affairs met on June 28, 1986 and February 7, 1987.

The MSMA Council referred several resolutions from the 1986 House of Delegates for the Commission study and recommendations. The following items were recommended for study.

1. Sovereign Immunity of some public hospitals.
2. Durable Power of Attorney: as enacted by California legislation.
3. Charitable activity as a requirement for medical staff privileges in certain private hospitals.

MSMA staff is currently working to provide direction and possible resolutions and/or legislation to address these issues.

February 7, 1987, a joint meeting was held with MSMA, MAOPS and the Missouri Bar. The emphasis of this meeting centered around the development and organization of the Interprofessional Code for Physicians and Attorneys.

Special focus centered on physician deposition fees.

The Commission agreed that a reasonable fee should be allowed for depositions and if a fee in advance is required by a physician, it should be credited towards the actual deposition.

Specific attention centered on SB 215 and HB 254 which would create a "State Legal Defense Fund" to replace the "Tort Defense Fund" and which shall consist of moneys appropriated to the fund by the General Assembly and moneys otherwise credited to such fund.

In further action, the Commission discussed that MSMA, MAOPS, and the Missouri Bar are planning a "Right to Die" conference in St. Louis. Further planning will start around July 1988.

In final action, the Commission recommended the Missouri Bar Association provide a voting lay member to be included on its disciplinary board.

J. Michael Conoyer,
Chairman
Natu Patel
Ben I. Albano
Ralph Braunschweig
Garth S. Russell
Richard H. Fallon
William J. Medlicott
David M. Reisler
Leonard L. Davis, Jr.
Ronald Benson
Johannes Schokker
Donald E. Kuenzi
George L. Hawkins, Jr.
James E. Mallow
Tehmton Mistry
David Wilkinson, *Councilor Advisor*
Ms. Denise Johnson

Councilor District Directors on CME

The Councilor District Directors on CME met on May 31 and August 29.

The Councilor District Directors formalized their responsibility as a District Director as it relates to the Missouri State Medical Association. The District Directors will assist their respective districts with accrediting organizations as a sponsor for continuing medical education and will identify health manpower needs. This will permit the Missouri State Medical Association to become more responsive to the needs of each district.

It was recommended that staffed county medical societies take steps to become recognized as a sponsor for continuing medical education activities. This would assure that county medical societies may become responsive to members' CME needs.

The Councilor District Directors reviewed and approved the following procedural documents for the MSMA Accreditation Program:

a. Interpretation of Essentials and Guidelines for Accreditation of sponsors of CME.
b. Guide to Accreditation.
c. CME planning through committee process.
d. Category I credit for Grand Rounds or Teaching Rounds for Residents.
e. Guidelines for continued support of CME.
f. Procedures for reconsideration of adverse decisions of the CME Committee.
g. Procedure for review of interim reports.
h. Procedures for conducting surveys of CME programs.
i. Survey team checklist.

The Councilor District Directors on CME made the following recommendations for hospitals being recognized as a sponsor for CME:

- Alexian Brothers Hospital, St. Louis, while in compliance, recommendation was deferred pending additional information.
- Academy of the Health Professions, Kansas City, full accreditation for a four year period.
- Children's Mercy Hospital, Kansas City, full accreditation for a four year period.
- Ellis Fischel State Cancer Hospital, Columbia, accreditation for a three year period.
- St. Luke's Hospital of Kansas City, full accreditation for a four year period.
- Missouri Baptist Hospital, St. Louis, full accreditation for a four year period.
- Phelps County Regional Medical Center, Rolla, probationary, pending correction of deficiencies present on previous survey.
- St. Mary's Health Center, Jefferson City, accreditation for a two year period.

To clarify the differences between the various intervals of an accreditation period, it is pointed out that "full accreditation" should refer to the maximum length awarded a sponsor. Presently, this period of time is four years.

On August 29, the Missouri State Medical Association was reviewed as an intrastate accrediting agency. The MSMA was given full accreditation for a period of four years.

Gary A. Dyer, *Chairman*
Hiremathada Jayanandaiah
Luis Anglo
Olga M. Blair
Michael W. Vannier
David Martin
Gerald J. Duling
William D. Bradshaw
George D. Comfort
W. Wayne Boydston
Thomas G. Hopkins
George X. Trimble
James Youngblood
Jon F. Snow
Tim Wilson
Edward Jenkins

Can you top this?

* Compare these graded premium whole life rates with any term:

Age	*$100,000*	*$250,000*	*$500,000*	*$1,000,000*
30	$118	$ 195	$ 371	$ 695
35	120	201	384	725
40	149	253	480	935
45	179	322	615	1205
50	221	405	770	1535
55	314	593	1160	2295
60	506	998	1974	3915
65	837	1700	3384	6725

Non-Smoker Annual Rates Shown

★ Premiums are guaranteed for the first 5 policy years.
★ Convertible to any level premium whole life offered by company.
★ Premiums increase each year to age 75 then level.
★ Rated an "A" Excellent Life Company by A. M. Best Co.

For more information, return this form or contact:

Wes Woodbury & Associates
3609 NE 62nd Terrace
Kansas City, MO 64119
816-455-3400

Amount of insurance $ ______________

Date of Birth ______________

Smoker/Non-Smoker (circle one)

Name ______________

Address ______________

City/State ______________

Zip ______________ Phone ______________

Information for Contributors

Articles are accepted for publication on condition that they are contributed solely to this journal. Material appearing in Missouri Medicine is protected by copyright.

Manuscripts should be submitted to the editor, Jordan W. Burkey, M.D., P.O. Box 1028, 113 Madison, Jefferson City, Mo. 65102. The transmittal letter should designate one author as correspondent and include his address and telephone number.

In addition, in view of *The Copyright Revision Act of 1976*, effective Jan. 1, 1978, transmittal letters to the editor should contain the following language: "In consideration of the Missouri State Medical Association's taking action in reviewing and editing my submission, the author(s) undersigned hereby transfers, assigns or otherwise conveys all copyright ownership to the MSMA in the event that such work is published by the MSMA." We regret that transmittal letters not containing the foregoing language signed by all authors of the submission will necessitate delay in review of the manuscript. Please include the title of the article in the transmittal letter.

Manuscripts

Manuscripts should be typewritten, double spaced, and the original with one copy submitted. Retain another copy for proofreading. Please number the pages of your manuscript. Manuscripts are not returned. Hospital and University appointments of the author(s) should accompany the manuscript. A synopsis-abstract of no more than 75 words should accompany the manuscript.

References

References should be cited in numerical order in the text and arranged at the end of the article in the same order in which they are cited. The reference should give name of author, title of article, name of periodical, volume number, initial page number and year. Authors are responsible for reference accuracy.

Illustrations

Illustrations should be glossy prints or drawings in India ink on white paper. They should not be mounted and name of author and figure number should be penciled lightly on the back. Legends should appear on a separate sheet.

Legal difficulties may arise from unauthorized use of names, initials or photographs in which individuals can be identified. Permission should be secured from patient or legal guardian and signed duplicate or photostat submitted with such photographs or identification. The Editor and Editorial Board assume no responsibility for the opinions and claims expressed in articles contributed by authors. If citation of an institution related to the article is made, approval of the chief of service should be given in a letter accompanying the article.

Reprints

Reprint order blanks will accompany proof, which will be sent to authors prior to publication.

Editorials

Editorials should be written in clear, concise language. Length should be about two or three pages typed with double spacing.

Letters

Letters will be published at the discretion of the editor, managing editor, and Editorial Board.

Deadline

All material other than scientific should be received prior to the first of the month preceding month of publication.

Index to Advertisers

Ayerst Labs **370A-D**

Berlin-Wheeler **334**

Campbell Labs **355**

Dallas Rehabilitation Institute **338**

D.O.C., Inc. **392**

E. F. Hutton **374**

Eli Lilly **386B**

Forrest T. Jones **336**

Fred S. James **328**

General American/Medicare Part B **347**

Goetze-Niemer **330**

Life Lines **365**

Marion Labs **334A-B**

Medical Defense Associates **356**

Medical Protective Company **334**

Michael Howard Ruffin **394**

Missouri Rehabilitation **388**

MOMEDICO **326**

Naval Reserves **394**

Risk Control Associates **389**

Roche Laboratories **368, 369, 395, 396**

The Shealy Institute **373**

SSM Rehabilitation **330, 346**

United Missouri Banks **370**

The Upjohn Company **386A**

Wes Woodbury **380**

Registration of the 129th Annual Convention

First Councilor District — 27

Andres, E. H., St. Joseph
Bowles, Richard P., Liberty
Christiansen, Sidney, St. Joseph
Dixon, John R., Brookfield
Dyer, Gary, St. Joseph
Fakhoury, Donald, Kansas City
Gearhart, Merriam, Bethany
Gordon, Mark E., Kansas City
Hagan, John C. III, N. Kansas City
Harr, Patrick, Maryville
Kelly, Gilbert B., Savannah
Kuenzi, Donald E., Kansas City
Mandler, George, Chillicothe
Martin, John, St. Joseph
McCray, Stephen, Gladstone
McDonald, Wilbur P., St. Joseph
Moya, Carlos E., St. Joseph
Nixon, Edward E., Gallatin
Pifer, Larry, St. Joseph
Redmond, Wm. S., St. Joseph
Santner, Floyd, Marceline
Siegel, Charles, Gladstone
Sklenar, Donald E., St. Joseph
Slaughter, Carl R., Kansas City
Sportsman, Weldon L., Kansas City
Vilmer, Stephen, Kansas City
Wolanski, Eugene C., St. Joseph

Second Councilor District — 12

Bukstein, Michael, Hannibal
Campbell, James E., Macon
Cohrs, C. C., Moberly
Fleming, J. W., Moberly
Jayanandaiah, Hiremathada P., Hannibal
Kruse, Carl, Palmyra
Middleton, John, Louisiana
Plowman, Edward, Hannibal
Shin, Dong Soo, Macon
Shin, Sook Ja, Macon
Stuerman, Lawrence G., Louisiana
Tompson, Robert, Moberly

Third Councilor District — 144

Albert, I. Reneé, St. Louis
Anglo, Luis, St. Louis
Avins, Laurence, St. Louis
Bailey, William Harold, St. Louis
Balster, Vernon H., St. Louis
Banton, M. Roman, St. Louis
Banton, William C. II, St. Louis
Bart, Gerald, St. Louis
Baue, A. E., St. Louis
Berger, Edward J., St. Louis
Biddy, Ralph L., St. Louis
Bohigian, George M., St. Louis
Bolton, Robert, St. Louis
Boyarsky, Saul, St. Louis
Bradley, Richard V., St. Louis
Brangle, Robert W., St. Louis
Buettner, John B., St. Louis
Cabbabe, Edmond B., St. Louis
Caronongan, Carmelito, Cairo, IL
Chipongian, R. A., Town & Country
Comas, Manuel R., St. Louis
Connelly, Michael, Ladue
Cooper, T. J., St. Louis
Coyne, Patrick, Florissant
Criscione, J., Kirkwood
Criscione, J. S., Sr., St. Louis
Datta, N. K., St. Louis
Debnam, James W. Jr., St. Louis
Dehner, Jonathan D., St. Louis
Dickler, Donald J., St. Louis
Diemer, Peter, St. Louis
Drozda, Joseph P., St. Louis
Eberle, John, St. Louis
Fallon, Richard H., St. Louis
Feliciano, Wilfrido C., St. Louis
Fitch, Coy D., St. Louis
Flanigan, George D., Jr., St. Louis
Floro, Mariano N., St. Louis
Gagliardo, Joseph, St. Louis
Galakatos, Andrew E., St. Louis
Geise, August W., St. Louis
Gimpelson, Richard J., St. Louis
Goebel, Joel A., St. Louis
Graviss, Richard E., St. Louis
Hanley, Thomas P., St. Louis
Harell, Alex, St. Louis
Hogan, Patrick C., St. Louis
Huffaker, Wm., St. Louis
Hummel, Wm. C., St. Louis
Hurley, Joseph J., Creve Coeur
Isserman, Michael, St. Louis
Johans, Thomas G., St. Louis
Kamenetzky, Stephen, St. Louis
Kaminski, Donald, St. Louis
Kass, Michael, St. Louis
Kayes, Jack, St. Louis
Kissel, John H., St. Louis
Kitchen, Alice D., St. Louis
Knopf, Harry, St. Louis
Kolker, Allan, St. Louis
Korn, Elliot, St. Louis
Kreisman, Jerold, St. Louis
Krettek, John E., St. Louis
Laird, John M., St. Louis
Lepor, Herbert, Creve Coeur
Lieb, Francis X., St. Louis
L'Ecuyer, Jerome, St. Louis
Lottes, J. Otto, St. Louis
Marshall, Sue, St. Louis
Marshall, Jay, St. Louis
Mass, Joan H., St. Louis
McCann, John J., Kirkwood
McClennan, Bruce L., St. Louis
MacDonald, Robert R., Jr., St. Louis
Machek, Otakar, St. Louis
Manion, Maria E., St. Louis
Mantovani, John F., St. Louis
Meyer, Jay, St. Louis
Millangue, C. P., St. Louis
Miller, Charles, St. Louis
Miller, Robert N., St. Louis
Montes, Arturo C., St. Louis
Moritz, Gerald, St. Louis
Murdock, Nathaniel H., St. Louis
Oppenheimer, Henry E., St. Louis
Ostapowicz, Frank, St. Louis
O'Sullivan, Daniel, St. Louis
Palmer, Stephen, St. Louis
Perkins, David E., St. Louis
Pernoud, Flavius, St. Louis
Pernoud, Joan, St. Louis
Peterson, Frederick, St. Louis
Petruska, Paul J., St. Louis
Philpott, Gordon W., St. Louis
Pohl, David L., St. Louis
Ponnuru, Bhaskara M., St. Louis
Purcell, John, St. Louis
Quick, Richard T., St. Louis
Rahman, Moududur, Chesterfield
Ramsey, Robert H., St. Louis
Redington, James C., St. Louis
Reisler, David M., St. Louis
Reynolds, Susan, St. Louis
Ring, Lisa, Bridgeton
Ritter, Hubert A., St. Louis
Rosenbaum, Herb, Creve Coeur
Roy, Tapan, St. Louis
Rumelt, Michael, St. Louis
Ryall, Jo-Ellyn M., St. Louis
Sasser, William F., St. Louis
Saunders, Evan K., St. Louis
Schmandt, Margaret, St. Louis
Schmidt, Edwin H., St. Louis
Schuessler, W. P., St. Louis
Schweiss, John F., St. Louis
Schwartz, Melvin M., St. Louis
Shatz, Gerald, St. Louis
Shields, John B., St. Louis
Shaw, Edward J., St. Louis
Simon, David L., St. Louis
Spalding, Donald G., St. Louis
Steinberg, Franz, St. Louis
Steinhardt, George, St. Louis
Stephen, C. R., Chesterfield
Suba, Antonio R., St. Louis
Tabas, Maxins, St. Louis
Thurston, Don L., Glendale
Till, George W., Webster Groves
Tucker, Delores R., St. Louis
Turner, Timothy T., St. Louis
Verde, J. Nick, St. Louis
Viers, Wayne A., St. Louis
Vitale, N. S., Hazelwood
Walz, Bruce J., St. Louis
Wedner, H. James, St. Louis
West, Joseph W., St. Louis
Westrup, E. A., Webster Groves
White, Newton B., St. Louis
Whitener, Miles, St. Louis
Whittico, James M., St. Louis
Wilkinson, David, St. Louis
Williams, Carol, St. Louis
Wilucki, Melvin R., St. Louis
Yazdi, Tom, St. Louis

Fourth Councilor District — 13

Conoyer, J. Michael, St. Peters
Curry, Michael J., St. Charles
Cusworth, Robert, St. Charles
Del Pizzo, Ferd, St. Charles
Farrell, Sam, Washington
Marrs, D. Bradley, St. Charles
McCabe, Eugene J., St. Charles
Moeller, F. Delbert, O'Fallon
O'Connor, John J., Warrenton
Penkoske, Michaele M., St. Charles
Richardson, William, Union
Shaw, James T., Hermann
Stufflebam, Brian, St. Peters

Fifth Councilor District — 87

Akhter, Jeanette, Columbia
Akhter, Mohammad, Columbia
Allen, William C., Columbia
Anderson, Philip, Columbia
Barbee, Charles, Columbia
Beckett, Wm. Wilson, Columbia
Blackwell, Charles, Columbia
Blakeley, Dean, Columbia
Blinder, Keven J., Columbia
Bradshaw, William D., Columbia
Braun, Alan, Jefferson City
Braunschweig, Ralph, Columbia
Brukardt, Diane, Columbia
Bucher, William, Columbia
Cooper, Charles W., Jefferson City
Corrado, Joseph A., Mexico
Cox, Curtis, Jefferson City
Creech, Fred, Mexico
Crowley, William J., Jr., Columbia
Cunningham, Milamari, Columbia
DeSpain, John, Columbia
Doerhoff, Adelia, Jefferson City
Dueker, David, Columbia
Eggers, George W., Columbia
Ekern, H. Peter, Mexico
Ennen, Randy M., Columbia
Estrem, Scott A., Columbia
Fotopoulos, Chris, Osage Beach
Francis, Roger, Osage Beach
Friedman, Scott, Columbia
Fuchs, George J., Columbia
Giangiacomo, Joseph, Columbia
Giffen, L. E., Jefferson City
Griffin, William, Columbia
Gunn, Victoria, Jefferson City
Guyer, Emily, Columbia
Hayden, Melvin R., Camdenton
Heimburger, Richard, Columbia
Hoxworth, Gerald M., Mexico
Ide, Carl H., Columbia
Jackson, Vernon B., Fulton
Kanagawa, H., Jefferson City
Kauffman, Ruth, Versailles
Kim, J. B., Columbia
Klachko, David M., Columbia
Kraybill, Bill, Columbia
Lising, Alexander, Columbia
Llorens, Alfred, Columbia
Lueckenhoff, Rebecca, Jefferson City
Lyskowski, John, Jefferson City
McKnight, Scott, Columbia
Mier, Tom, Columbia
Mitchell, F. L., Columbia
Murrell, Jerry, Columbia
Musick, William, Columbia
Neese, Allen L., Columbia
Nierling, Dean A., Columbia
Nolph, Georgia, Columbia
Parker, Brent, Columbia
Pearman, Carl, Columbia
Pelegrin, Robert J., Osage Beach
Perry, Michael C., Columbia
Phillips, Stephen, Columbia
Pickard, C. M., Columbia

Rae, James, Jefferson City
Rall, Kenneth, Columbia
Ridenhour, Gene, Columbia
Roller, James, Columbia
Schokker, J., Jefferson City
Shah, Saroj, Columbia
Siu, Kenneth, Jefferson City
Smith, Randall D., Columbia
Sohn, Dan, Columbia
Stephenson, Hugh E., Jr., Columbia
Stuart, Byron, Boonville
Tanner, R. H., Jefferson City
Taylor, Steve, Mexico
Thomas, Robert M., Columbia
Wankum, Robert, Jefferson City
Weaver, Bruce E., Columbia
Weaver, Mark, Columbia
Werth, Joe, Jefferson City
West, David, Columbia
Wilbers, Ray, Mexico
Wilson, George, Columbia
Zacharias, K., Columbia
Zacharias, Sara, Columbia

Sixth Councilor District — 12

Campbell, A. J., Sedalia
Cole, William, Sedalia
Knipschild, B. F., Marshall
LaHue, W. C., Lexington
Lovinger, Warren, Nevada
Magee, Robert L., Eldorado Springs
Maxon, T. Reed, Warrensburg
Meyer, Jerry L., Concordia
Moore, Candice A., Nevada
Moore, Ted, Nevada
Turner, William A., Nevada
Wetzel, Gus, Clinton

Seventh Councilor District — 74

Adelman, Bruce T., Kansas City
Ashby, Jennifer, Kansas City
Ashcraft, Keith W., Kansas City
Bailey, Hugh, Kansas City
Beatty, R. M., Kansas City
Bever, Grant, Kansas City
Bogart, Douglas B., Kansas City
Brown, Robert S., Kansas City
Buie, Bruce R., Kansas City
Caffrey, Raymond, Independence
Caruso, Alfred A., Kansas City
Case, William F., Kansas City
Chandler, R. Allen, Kansas City
Dorzab, Bill, Kansas City
Duerksen, Joseph J., Shawnee Mission, KS
Duggan, Eileen, Kansas City
Ellis, Jean, Blue Springs
Ellis, John C., Kansas City
Eubank, W. Y., Kansas City
Franklin, Curtis U., Jr., Kansas City
Freilich, Brad, Kansas City
Gibbons, Robert, Shawnee Mission, KS
Gordon, Stephen M., Kansas City
Gunnoe, Robert, Kansas City
Hahn, Frederick, Kansas City
Hall, John C., Kansas City
Hausheer, Herman J., Kansas City
Hoech, George P., Kansas City
Hollinger, Lloyd A., Kansas City
Kahn, Marvin, Kansas City
Kelly, Charles R., Kansas City
Ketcherside, W. Joseph, Kansas City
Kopperman, Mordecai, Kansas City
Lederer, Charles M., Kansas City
Lee, King Y., Kansas City
Loren, Michael, Independence
Manuel, Louis C., Kansas City
Martin, Mark, Kansas City
McKeel, Thomas, Kansas City
McLaughlin, Durnell, Kansas City
McPhee, Wm. R., Kansas City
Medlicott, William J., Kansas City
Melia, B. J., Kansas City
Michelson, Richard B., Kansas City
Migliazzo, Carl V., Overland Park, KS
Mitchell, John D., Kansas City
Mitchell, Kathleen, Kansas City
Norland, Ann, Kansas City
O'Hearne, John, Kansas City
Peterson, W. R., Kansas City
Piepergerdes, Larry, Kansas City
Porter, Louis, Kansas City
Porter, Michael J., Shawnee Mission, KS
Potts, Donald A., Kansas City
Price, Patrick K., Kansas City
Pyszczynski, Dennis R., Overland Park, KS
Reister, Dorothy, Shawnee Mission, KS
Rhodes, Andrew J., Kansas City
Roberts, Fred, Kansas City
Rues, Lawrence A., Kansas City
Schertz, T. B., N. Kansas City
Smith, Byron, Kansas City
Spalding, Wilbur B. Jr., Kansas City
Stacey, Wallace, Independence
Stass-Isern, Merrill, Kansas City
Stewart, Harry A., Kansas City
Stout, Carl, Kansas City
Tuohy, G. F., Kansas City
Volk, George E., Kansas City
Wall, Leonard, Kansas City
Wolters, Nancy, Kansas City
Williams, R. D., Shawnee Mission, KS
Youll, Donald V., Kansas City
Youmans, Ronald A., Kansas City

Eighth Councilor District — 63

Ameduri, Clifford, Springfield
Anderson, Paul B., Neosho
Ash, Charles, Springfield
Bagby, Jack, Springfield
Bonebrake, A., Springfield
Boone, Martin, Springfield
Brian, William, Springfield
Brigden, Robert B., Joplin
Brown, James T., Springfield
Burkey, Jordan W., Springfield
Clarke, Michael, Springfield
Corry, Francis, Springfield
Domann, Darrell, Springfield
Ellis, Francis J., Springfield
Enkvetchakul, B., Springfield
Gentry, Michael, Springfield
German, Walter A., Springfield
Glover, Kenneth, Mt. Vernon
Harvey, Judith E., Springfield
H'Doubler, Charles, Springfield
Hall, David W., Springfield
Hatelid, Robert, Joplin
Hellam, Duane, Springfield
Hilton, Paul E., Joplin
Huffman, Larry, Branson
Ivy, H. B., Springfield
Key, James S., Springfield
Kissell, Richard, Springfield
Klinkerfuss, G., Springfield
Knowlton, Norman, Springfield
LeFevre, Philip J., Springfield
Lurie, Hal, Springfield
Macdonnell, Thomas, Marshfield
Martin, Clarence, Joplin
McAlhany, Howard, Springfield
McFarland, Rodney, Neosho
Miles, Wayne, Springfield
Molchan, James, Bolivar
Moore, Kelly, Joplin
Moore, Thomas, Joplin
Morrow, Gene, Springfield
Newman, Mary, Cassville
Peterson, Stanley S., Springfield
Piker, K. Dewayne, Springfield
Prater, Bill G., Springfield
Quinn, Paul S., Strafford
Quinn, Rodney D., Springfield
Raborar, Arteso, Springfield
Roberts, Howard, Joplin
Robinson, Gary, Springfield
Singleton, Marvin, Joplin
Spade, Diana, Rogersville
Spalding, D. L., Springfield
Sullivan, Dan T., Springfield
Tombridge, T., Springfield
Wall, Norman, Springfield
Washburn, Kenneth B., Springfield
White, Russell, Aurora
Whitlock, C. C., Springfield
Winsky, Arlen D., Springfield
Wolfe, James, Springfield
Wood, Charles, Hollister
Worth, Eugene R., Springfield

Ninth Councilor District — 19

Antebi, Morris, West Plains
Barbee, David, Mountain Grove
Bartlett, Hugh, Rolla
Bass, Barry J., Rolla
Dreyer, Wm. F., Houston
Grannemann, H. Neal, Rolla
Hasek, James, Mountain Grove
Hasek, O. Martin, West Plains
Huster, Robert M., Rolla
Kasten, Melvin, Cape Girardeau
Mayuga, L. G., Cabool
Moore, Michael, West Plains
Smith, Claude, Willow Springs
Stricker, E. A., St. James
Stricker, Paul, St. James
Stricker, Wes, Rolla
Stubbs, Thomas, West Plains
Tang, Albert, Salem
Tang, T. C., Salem

Tenth Councilor District — 34

Albano, Ben, Crystal City
Andrus, Dan L., Poplar Bluff
Auner, J. David, Ironton
Brown, Hal, Cape Girardeau
Brown, Mike J., Cape Girardeau
Cancelada, Juan, Farmington
Dever, Robert L., Poplar Bluff
Eller, Gordon E., Cape Girardeau
Fairchild, J. Fred, Perryville
Felker, Ed., Sikeston
Fitz, John, Farmington
Frazier, Robert L., Sikeston
Glenn, Theodore J., Cape Girardeau
Griffin, Darrell, Farmington
Gujarahi, Subhash, Poplar Bluff
Hansbrough, E. T., Poplar Bluff
Huckstep, Robert, Farmington
Jung, Christopher, Cape Girardeau
Kasten, Mark C., Cape Girardeau
Kim, Yong Kie, Cape Girardeau
Limpiphiphatn, D., Perryville
Limpiphiphatn, Ester, Perryville
Pringle, Scot G., Cape Girardeau
Raksakulthai, Vinai, Fredericktown
Reed, Martha, Hillsboro
Robinson, Ronald L., Cape Girardeau
Robinson, Nicholas, Kennett
Seabaugh, Wm. O. L., Cape Girardeau
Shell, Wm., Sikeston
Simpelo, Rustico, Potosi
Sparkman, T. C., Cape Girardeau
Spitler, Allen L., Cape Girardeau
Swinfard, Ronald, Cape Girardeau
Turner, Kirby, Poplar Bluff

St. Louis University
Student Medical Society — 2

Gonzer, William, St. Louis
Wadley, Jeff, St. Louis

University of Missouri-Kansas City
Student Medical Society — 2

Siegfried, Carla, Kansas City
Syed, Nasreen, Kansas City

University of Missouri-Columbia
Student Medical Society — 3

Cooper, Kent, Columbia
Moreton, Dave, Columbia
Gold, Carl, Columbia

Washington University-St. Louis
Student Medical Society — 2

Buznego, Carlos, St. Louis
Vaughan, Tom, St. Louis

Guest Physicians — 72

Ailor, Susie, Columbia
Allen, Robert, Charlottesville, VA
Ameln, Richard, Ottumwa, IA
Bayer, Michael, Duluth, MN
Behrens, Bobbie J., Columbia
Buchsbaum, Herbert J., Pittsburgh, PA
Canavan, David I., Lawrenceville, NJ
Caruso, Peter, Mission Hills, KS
Cefalo, Robert C., Chapel Hill, NC
Chomhirun, Bud P., Edwardsville, IL
Cohen, John, Cincinnati, OH
Colantoni, William, Davenport, IA
Crossman, Rusty, Omaha, NE
Delfino, John, St. Louis
Del Guerico, L., Larchmont, NY
Eichhorn, John H., Boston, MA
Ellwood, Paul, Excelsior, MN
Emert, Frank, Vincennes, IN
Fundenberger, Martin, Indianapolis, IN
Gearhart, David, Creve Coeur
Greer, Kenneth E., Charlottesville, VA
Gronstedt, Joy, Versailles
Guenthner, Brenda, Columbia
Hall, Stanley, Metairie, LA
Hancock, Wm. R., Tucson, AZ
Hare, James, Lyndhurst, OH
Hazelrigg, Don, Evansville, IN
Hermreck, Arlo S., Kansas City, KS
Hirsh, David, Houston, TX
Hopper, John M., Baton Rouge, LA
Isaac, Anita, M., Mt. Vernon
Janes, Robert, Ft. Smith, AK
Kapetansky, Frederick M., Columbus, OH
Krupin, Theodore, Philadelphia, PA
Lang, Adrienne, Washington, D.C.
Larus, Russell Jr., San Francisco, CA
Levi, Joe, Miami, FL
Lewis, Richard A., Sacramento, CA
Linder, Barry J., St. Louis
Loria, Richard C., St. Louis
Lumry, William, Dallas, TX
March, Wayne F., Oklahoma City, OK
Miller, Harvey D., Skokie, IL
Mittler, Brant, Sheridan, WY
Mussell, H., Sheridan, WY
Novak, Edward J., Leawood, KS
Olds, Ron, Camdenton
Panuska, James, Shaker Heights, OH
Parish, Richard K. II, Miami, FL
Parker, Joe C., Springfield, AK
Parsi, M.D., Pittsburg, KS
Paulus, David A., Gainesville, FL
Porterfield, H. William, Columbus, OH
Potter, William, Washington, D.C.
Richards, Paul, Columbus, OH
Schenken, Jerald R., Omaha, NE
Schosser, Robert H., Oklahoma City, OK
Shelley, E. D., Toledo, OH
Shelley, Walter B., Toledo, OH
Stiegmann, Greg, Denver, CO
Stone, William, Washington, D.C.
Sullivan, Timothy, Dallas, TX
Taylor, James S., Cleveland, OH
Vinik, Ron, Birmingham, AL
Walsh, Rich, Ottumwa, IA
Ward, Clarence V., Peoria, IL
Ward, Dana, Columbia
Westbrook, Kent, Little Rock, AR
Whitley, Douglas M., Overland Park, KS
Wilson, Randolph, Halstead, KS
Wise, James, Oklahoma City, OK
Wohlschlaeger, George, St. Louis
Wolf, Robert L., Champaign, IL

There were 494 members, 72 guest physicians, 116 exhibitors, 106 MSMA Auxiliary members, 144 guests and 21 staff members present. Total registration was 953.

How do you rate?

What do you think?
A patient survey to help us help you

How do your patients view your practice, your office staff and routines, your appointment scheduling?

The MSMA's Patient Survey Brochure is a small, concise, yet useful survey you can enclose with patient billings or place with waiting room reading material. The opinions your patients can provide may help you make definite practice-building decisions.

Available from **MSMA Communications,**
P.O. Box 1028, Jefferson City, MO 65102
Cost: 10¢ each, or write for a
free sample copy.

"Without your help I simply could not have made it through medical school."

The Missouri State Medical Foundation — MSMF — was created by the Missouri State Medical Association for the express purpose of giving financial assistance to deserving young Missourians who will be tomorrow's doctors.

Send your check today to the Missouri State Medical Foundation, 113 Madison St., P.O. Box 1028, Jefferson City, MO 65101.

New Members

■ **Norman F. Baade, D.O.,** St. Joseph 64502, has become a member of the Buchanan County Medical Society. Dr. Baade received his preliminary education at Western Michigan University and obtained his osteopathic degree at the Kirksville College of Osteopathic Medicine in 1982. He completed his residency at University Hospital, Kansas City, MO. He specializes in anesthesiology.

■ **Steven M. Johnson, M.D.,** 11133 Dunn Road, St. Louis 63136, has become a member of the St. Louis Metropolitan Medical Society. Dr. Johnson received his preliminary education at Drake University and obtained his medical degree at the University of Iowa College of Medicine in 1976. He completed his residency at University of Iowa Hospitals, Iowa City, Iowa. He specializes in pathology.

■ **Gary E. Meyerrose, M.D.,** 1013 Manchester Road, Ellisville 63131, has become a member of the St. Louis Metropolitan Medical Society. Dr. Meyerrose received his preliminary education at the University of Tennessee at Chattanooga and obtained his medical degree at the University of Tennessee Medical School in 1975. He completed his residency at Baptist Memorial Hospital, Memphis, TN. He specializes in internal medicine.

■ **Robert L. Mick, M.D.,** 6400 Clayton Road, St. Louis 63117, has become a member of the St. Louis Metropolitan Medical Society. Dr. Mick received his preliminary education at St. Louis University and obtained his medical degree at the St. Louis University School of Medicine in 1975. He completed his residency at St. Mary's Health Center, St. Louis, MO. He specializes in psychiatry.

■ **Kirk P. Morey, M.D.,** 3655 Vista Ave., St. Louis 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Morey received his preliminary education at Purdue University and obtained his medical degree at the Indiana University School of Medicine in 1985. He completed his residency at St. Louis University, St. Louis, MO. He specializes in ophthalmology.

■ **Charles V. Moylan, M.D.,** 4400 Broadway #206, Kansas City 64111, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Moylan received his preliminary education at Rockhurst College and obtained his medical degree at the University of Missouri-Columbia School of Medicine in 1983. He completed his residency at the University of Missouri Hospital and Clinics, Columbia, MO. He specializes in pediatrics.

■ **James E. Orear, D.O.,** 2727 McClelland Blvd., Joplin 64801, has become a member of the Jasper County Medical Society. Dr. Orear received his preliminary education at Pittsburgh State University and obtained his osteopathic degree at the University of Health Sciences in 1978. He completed his residency at Darnall Army Community Hospital, Fort Hood, TX. He specializes in emergency medicine.

■ **Dean W. Papageorge, M.D.,** 2700 Hospital Drive, Suite 500, North Kansas City 64116, has become a member of the Clay-Platte County Medial Society. Dr. Papageorge received his preliminary education at Emory University and obtained his medical degree at the University of Missouri-Columbia School of Medicine in 1981. He completed his residency at the University of Missouri Hospital and Clinics, Columbia, MO. He specializes in obstetrics and gynecology.

■ **Catherine A. Powers, M.D.,** 6400 Prospect, Suite 138, Kansas City 64132, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Powers received her preliminary education at Kansas Newman College and obtained her medical degree at the University of Kansas Medical School in 1983. She completed her residency at The Children's Hospital, Denver, CO. She specializes in anesthesiology.

■ **Dennis R. Pyszczynski, M.D.,** 2411 Holmes St., Kansas City 64108, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Pyszczynski received his preliminary education at the State University of New York at Buffalo and obtained his medical degree at SUNY School of Medicine in 1976. He completed his residency at Millard Fillmore Hospital, Buffalo, NY. He specializes in internal medicine.

■ **William W. Quick, M.D.,** 6700 Troost, Suite 234, Kansas City 64131, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Quick received his preliminary education at the College of Wooster and obtained his medical degree at the Downstate Medical Center, State University of New York in 1968. He completed his residency at the University of Missouri Medical Center, Columbia, MO. He specializes in endocrinology and diabetes care.

■ **Rodney T. Routsong, D.O.,** 77 Westport Plaza, Suite 355, St. Louis 63146, has become a member of the St. Louis Metropolitan Medical Society. Dr. Routsong received his preliminary education at Southern Methodist University and obtained his osteopathic degree at the Kansas City College of Osteopathic Medicine in 1973. He completed his residency at the Oklahoma Osteopathic Hospital, Oklahoma. He specializes in neurological surgery.

■ **Lawrence H. Trombka, M.D.,** 1 Hospital Drive, Columbia 65212, has become a member of the Boone County Medical Society. Dr. Trombka received his preliminary education at the Mexican School of Medicine of LaSalle University and obtained his medical degree at the Mexican School of Medicine of LaSalle in 1981. He completed his residency at the University of Missouri Hospitals and Clinics, Columbia, MO. He specializes in psychiatry.

■ **Dana S. Ward, M.D.,** 1 Hospital Drive, Columbia 65212, has become a member of the Boone County Medical Society. Dr. Ward received her preliminary education at the University of Missouri-Rolla and obtained her medical degree at the University of Missouri-Columbia School of Medicine in 1983. She completed her residency at the University of Missouri Hospitals and Clinics, Columbia, MO. She specializes in dermatology.

■ **Dan A. Waxman, M.D.,** 4040 Main, Kansas City 64111, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Waxman received his preliminary education at the University of Michigan and obtained his medical degree at the University of Kansas in 1981. He completed his residency at the Kansas University Medical Center, Kansas City, KS. He specializes in pathology.

Physician's Recognition Awards

Forty-nine MSMA members qualified for the MSMA-AMA Physician's Recognition Award during April 1987.

The award, presented by the Missouri State Medical Association and the American Medical Association, is given to those physicians who voluntarily complete 150 credit hours of continuing medical education within a three-year period. Sixty of the credit hours must be earned in Category I programs.

Boone

Charles W. Barbee, *Columbia*
James S. Carter, *Columbia*
John A. Crouch, *Columbia*
Marvin T. Haw, *Columbia*
John W. Long, *Columbia*

Buchanan

Phyllis L. G. Roberts, *St. Joseph*

Callaway

Soo-Ja Lee, *Fulton*

Clay-Platte

Thomas E. Geraghty, *Kansas City*

Cole

Carl R. Doerhoff, *Lohman*

Greene

Stuart A. Seale, *Springfield*
Frank D. Sundstrom, *Springfield*

Jackson

Ali A. Arbab, *Kansas City*
Peter C. Boylan, *Kansas City*
Jo J. Callaway, *Kansas City*
Donna K. C. Daily, *Kansas City*
W. B. Davis, *Kansas City*
Monaford D. Durnell, *Kansas City*
Samuel E. F. Ericsson, *Kansas City*
Donald R. Germann, *Kansas City*
Kenneth L. Goetz, *Kansas City*
Frederick H. Hartwig, *Kansas City*
Larry V. Hays, *Kansas City*
John W. Heryer, *Kansas City*
Thomas R. Hunt, *Kansas City*

Jackson *(Cont.)*

John W. Irvine, *Kansas City*
Charles R. Kelly, *Kansas City*
Jay T. King, *Kansas City*
Hal E. Marshall, *Kansas City*
Sidney F. Pakula, *Kansas City*
Stanley Penner, *Kansas City*
Robert A. Raich, *Kansas City*
Robert M. Ross, *Kansas City*
Enrique Vera, *Kansas City*
Shuh-Min Wu, *Kansas City*
James E. Young, *Kansas City*

Jasper

Frederick C. Stidman, *Joplin*

Lafayette-Ray

Charles T. Riley, *Richmond*

Pettis

Thomas J. Hopkins, *Sedalia*

St. Charles-Lincoln

Clarke T. Harding, *St. Louis*

St. Louis Metropolitan

John D. Bauer, *St. Louis*
Daniel J. Brennan, *St. Louis*
Ronald J. Gould, *St. Louis*
William G. Hart, *St. Louis*
Bartolome C. Kairuz, *St. Louis*
William G. Marshall, *St. Louis*
Daniel J. Murphy, *Bridgeton*
Amado P. Ortillo, *St. Louis*
Edward G. Pepper, *St. Louis*
Paul G. Schneider, *St. Louis*

Motrin® 800 TABLETS mg
ibuprofen

MOTRIN 800mg

Extra strength
Convenience
Economy

Upjohn
A Century
of Caring
1886·1986

©1986 The Upjohn Company

J-6138 January 1986

News from DISTA about a new dosage form of cephalexin

ANNOUNCING NEW

Keflet™ TABLETS

cephalexin

All the advantages of cephalexin in a convenient tablet form

- Backed by over 15 years of clinical experience
- Smaller tablet is specially shaped and coated for easier swallowing
- May enhance patient compliance, particularly among the elderly
- Tablet dosage form may be appreciated by patients of all ages

NEW Keflet Tablets are available as:

250-mg Tablets

500-mg Tablets

Keflet is contraindicated in patients with known allergy to the cephalosporins and should be given cautiously to penicillin-sensitive patients.

© 1987, DISTA PRODUCTS COMPANY

Brief Summary. Consult the package literature for prescribing information.
Indications and Usage: Keflet™ Tablets (cephalexin, Dista) are indicated for the treatment of the following infections when caused by susceptible strains of the designated microorganisms

Respiratory tract infections caused by *Streptococcus pneumoniae* and group A β hemolytic streptococci (Penicillin is the usual drug of choice in the treatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever Keflet is generally effective in the eradication of streptococci from the nasopharynx, however, substantial data establishing the efficacy of Keflet in the subsequent prevention of rheumatic fever are not available at present.)

Otitis media due to *S pneumoniae*, *Haemophilus influenzae*, staphylococci, streptococci, and *Neisseria catarrhalis*

Skin and skin-structure infections caused by staphylococci and/or streptococci

Bone infections caused by staphylococci and/or *Proteus mirabilis*

Genitourinary tract infections, including acute prostatitis, caused by *Escherichia coli*, *P mirabilis*, and *Klebsiella* sp

Note—Culture and susceptibility tests should be initiated prior to and during therapy Renal function studies should be performed when indicated

Contraindication: Keflet is contraindicated in patients with known allergy to the cephalosporin group of antibiotics

Warnings: BEFORE CEPHALEXIN THERAPY IS INSTITUTED, CAREFUL INQUIRY SHOULD BE MADE CONCERNING PREVIOUS HYPERSENSITIVITY REACTIONS TO CEPHALOSPORINS AND PENICILLIN CEPHALOSPORIN C DERIVATIVES SHOULD BE GIVEN CAUTIOUSLY TO PENICILLIN SENSITIVE PATIENTS

SERIOUS ACUTE HYPERSENSITIVITY REACTIONS MAY REQUIRE EPINEPHRINE AND OTHER EMERGENCY MEASURES

There is some clinical and laboratory evidence of partial cross-allergenicity of the penicillins and the cephalosporins Patients have been reported to have had severe reactions (including anaphylaxis) to both drugs

Any patient who has demonstrated some form of allergy, particularly to drugs, should receive antibiotics cautiously No exception should be made with regard to Keflet

Pseudomembranous colitis has been reported with virtually all broad spectrum antibiotics (including macrolides, semisynthetic penicillins, and cephalosporins), therefore, it is important to consider its diagnosis in patients who develop diarrhea in association with the use of antibiotics Such colitis may range in severity from mild to life-threatening

Treatment with broad-spectrum antibiotics alters the normal flora of the colon and may permit overgrowth of clostridia Studies indicate that a toxin produced by *Clostridium difficile* is one primary cause of antibiotic associated colitis.

Mild cases of pseudomembranous colitis usually respond to drug discontinuance alone In moderate to severe cases, management should include sigmoidoscopy, appropriate bacteriologic studies, and fluid, electrolyte, and protein supplementation When the colitis does not improve after the drug has been discontinued, or when it is severe, oral vancomycin is the drug of choice for antibiotic-associated pseudomembranous colitis produced by *C difficile* Other causes of colitis should be ruled out

Usage in Pregnancy—Safety of this product for use during pregnancy has not been established

Precautions: *General*—Patients should be followed carefully so that any side effects or unusual manifestations of drug idiosyncrasy may be detected If an allergic reaction to Keflet occurs, the drug should be discontinued and the patient treated with the usual agents (eg, epinephrine or other pressor amines, antihistamines, or corticosteroids).

Prolonged use of Keflet may result in the overgrowth of nonsusceptible organisms Careful observation of the patient is essential If superinfection occurs during therapy, appropriate measures should be taken

Positive direct Coombs' tests have been reported during treatment with the cephalosporin antibiotics In hematologic studies or in transfusion cross-matching procedures when antiglobulin tests are performed on the minor side or in Coombs' testing of newborns whose mothers have received cephalosporin antibiotics before parturition, it should be recognized that a positive Coombs' test may be due to the drug.

Keflet should be administered with caution in the presence of markedly impaired renal function. Under such conditions, careful clinical observation and laboratory studies should be made because safe dosage may be lower than that usually recommended

Indicated surgical procedures should be performed in conjunction with antibiotic therapy

As a result of administration of Keflet, a false-positive reaction for glucose in the urine may occur This has been observed with Benedict's and Fehling's solutions and also with Clinitest® tablets but not with Tes-Tape® (Glucose Enzymatic Test Strip, USP, Lilly)

Broad-spectrum antibiotics should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.

Usage in Pregnancy—Pregnancy Category B—The daily oral administration of cephalexin to rats in doses of 250 or 500 mg/kg prior to and during pregnancy, or to rats and mice during the period of organogenesis only, had no adverse effect on fertility, fetal viability, fetal weight, or litter size Note that the safety of cephalexin during pregnancy in humans has not been established

Cephalexin showed no enhanced toxicity in weanling and newborn rats as compared with adult animals Nevertheless, because the studies in humans cannot rule out the possibility of harm, Keflet should be used during pregnancy only if clearly needed.

Nursing Mothers—The excretion of cephalexin in the milk increased up to 4 hours after a 500-mg dose, the drug reached a maximum level of 4 μg/mL, then decreased gradually, and had disappeared 8 hours after administration Caution should be exercised when Keflet is administered to a nursing woman.

Adverse Reactions: *Gastrointestinal*—Symptoms of pseudomembranous colitis may appear either during or after antibiotic treatment Nausea and vomiting have been reported rarely The most frequent side effect has been diarrhea It was very rarely severe enough to warrant cessation of therapy Dyspepsia and abdominal pain have also occurred As with some penicillins and some other cephalosporins, transient hepatitis and cholestatic jaundice have been reported rarely

Hypersensitivity—Allergic reactions in the form of rash, urticaria, angioedema, and, rarely, erythema multiforme, Stevens Johnson Syndrome, or toxic epidermal necrolysis have been observed These reactions usually subsided upon discontinuation of the drug Anaphylaxis has also been reported.

Other reactions have included genital and anal pruritus, genital moniliasis, vaginitis and vaginal discharge, dizziness, fatigue, and headache Eosinophilia, neutropenia, thrombocytopenia, and slight elevations in SGOT and SGPT have been reported

PV 2211 DPP

[111786]

Additional information available to the profession on request from

Dista Products Company
Division of Eli Lilly and Company
Indianapolis, Indiana 46285
Mfd by Eli Lilly Industries, Inc
Carolina, Puerto Rico 00630

720073

Medical School News

The University of Missouri-Columbia

■ **William C. Allen, M.D.,** recently-retired professor of family and community medicine, has been named professor emeritus of family and community medicine in recognition of his 22 years of service.

■ **James T. Barrett, Ph.D.,** professor of microbiology, has returned from a leave of absence at the University of Murcia, Spain. Dr. Barrett has been teaching and conducting research on the purification and characterization of antigens from Leishmania species, and on the isolation and analysis of toxins produced by Clostridium difficile.

■ **William Bradshaw, M.D.,** associate professor of family and community medicine, was awarded the 1987 Award for Citizenship and Community Service by the Missouri State Medical Association at the Association's Annual Meeting in April. The award, presented to one physician each year, was presented to Dr. Bradshaw for outstanding contributions above and beyond the call of duty as a practicing physician to his profession, his community, his colleagues and his patients.

■ **John Cannon, Ph.D.,** and **David Lee, Ph.D.,** are both joining the University of Missouri-Columbia's Molecular Biology Program as assistant professors of microbiology late this summer. Dr. Cannon is coming from the University of Pennsylvania where his research interests have included the regulatory system and particularly the interactions of macromolecules. Dr. Lee is coming from Washington University School of Medicine where he has specialized in immunochemistry and molecular immunology of murine H-2 class I antigens and genes.

■ **Robert J. Churchill, M.D.,** joined the UMC School of Medicine as chairman of the department of radiology on July 1. Dr. Churchill was previously vice chairman and associate professor of radiology at Loyola University Medical Center in Maywood, IL.

■ **Jack M. Colwill, M.D.,** professor and chairman of family and community medicine, has recently been elected President-Elect of the Society of Teachers of Family Medicine. He was installed as President at the 20th Annual Meeting of the Society in New Orleans in April. Dr. Colwill also presented "The Education Implications of Reducing Medical Class Size" to the Council of Academic Societies of the Association of American Medical Colleges in Houston, Texas in March.

■ **Jack Curtis, M.D.,** associate professor and chief of cardiothoracic surgery, has received a $21,200 grant from Glaxo, Inc. for "Prospective Randomized Study of Cefazolin vs. Cerfuoxime in the Prevention of surgical wound infection following open heart surgery."

■ **David M. Witten, M.D.,** retired chairman and professor of radiology, has been named professor emeritus of radiology. Dr. Witten, who retired April 1 of this year, had been chairman of the department since 1982.

■ **Richard A. Finkelstein, Ph.D.,** Millsap Distinguished professor and chairman of microbiology, recently presented seminars in Japan and Thailand about his laboratory's research on cholera, related diarrheal diseases and the antimicrobial activity of human milk. Dr. Finkelstein collaborated with scientific colleagues in Tokyo and Osaka, Japan and at Mahidol University, Bangkok, and Prince of Songkla University, Hay-Yai, both in Thailand. NIH Fogarty International Visiting Fellow in Dr. Finkelstein's lab, **Debadatta Panigrahi, M.D.,** has completed his visit and has returned to his post as assistant professor of medical microbiology at the Post-Graduate Research Institute in Chandigarh, India.

■ **Robert W. Gaines, M.D.,** associate professor of orthopaedic surgery, was the President's guest lecturer at the Japanese Scoliosis Society meeting in April. Dr. Gaines was also the guest consultant for several spinal surgery groups while in Japan.

■ **Gerald T. Perkoff, M.D.,** curators professor and associate chairman of family and community medicine, has recently been reappointed to two prestigious national activities. He has been reappointed to the Membership Committee of the Institute of Medicine of the National Academy of Science for a three-year term and also to the Institute of Medicine's Committee to select the recipient of the Gustav Lienhard Medal and Prize. Dr. Perkoff was also invited to give a presentation "From Past to Future Excellence in Medical Education" to the University of Wisconsin School of Medicine during Medical Education Day.

■ **Charles L. Puckett, M.D.,** professor and chief of plastic and reconstructive surgery, was installed as President of the Association of Academic Chairmen in Plastic Surgery at the annual meeting in Nashville in May.

■ **Michael E. Whitcomb, M.D.,** dean of the UMC School of Medicine, has been appointed chairman of the Council on Graduate Medical Education's Subcommittee on Foreign Medical School Graduates. Dean Whitcomb has been serving on the Council on Graduate Medical Education since it's creation in November of last year. U.S. Health and Human Services Secretary Otis R. Bowen created the Council to make recommendations to the Secretary and Congress about the direction the government should take in influencing physician training and distribution in America.

■ **Kim S. Wise, Ph.D.,** associate professor of microbiology, recently presented seminars on "The Structure, Variation and Molecular Cloning of Mycoplasma Surface Lipoprotein" at Iowa State University Veterinary Medical Research Institute and the University of South Dakota School of Medicine.

University of Missouri-Kansas City

■ Effective June 1, **Charles Wilkinson, M.D.,** retired as associate dean for Development at UMKC School of Medicine. Dr. Wilkinson, who will remain active on Hospital Hill, has been associated with the medical school for 17 years, and played a significant role in developing its curriculum. At a May 8 farewell reception, **Dean Harry S. Jonas, M.D.,** presented him with a chair, commenting, "I don't know how we could have run the Dean's Office and accomplished all the things we have without his contributions . . . and those contributions will remain for a long time to come."

■ **Miss Margaret Mahoney,** president of The Commonwealth Fund, a New York-based philanthropic organization, on May 29 addressed, "The Promise Ahead: Preparing Medicine for the Future," as UMKC School of Medicine's sixth annual Carl Migliazzo Memorial Lecture. In keeping with tradition the Migliazzo Lecture was delivered on commencement day. This year, 92 students were added to the roster of UMKC graduates.

■ **Raj TerKonda,** a fourth-year student at UMKC School of Medicine, was presented with $250 as grand-prize winner for the school's first annual Research Day March 21. His topic was, "Measurement of Protein C Levels in Sickle Cell Anemia." More than 150 people attended the event, which included both students' oral presentations, and a display of faculty members' poster sessions.

■ **James P. Youngblood, M.D.,** professor and chairman of the Department of Obstetrics/Gynecology at Truman Medical Center, recently was appointed to serve a three-year term on the Council on Resident Education in Obstetrics and Gynecology (CREOG), a national medical association which promotes high standards in resident education in Obstetrics and Gynecology.

■ The first meeting of the **Edward J. Twin, M.D.,** Memorial Society on May 28 was judged a success. The society was founded to honor Dr. Twin and his numerous contributions to the community, to Hospital Hill, to developing ties between UMKC and China, and for his loyalty to his students. In keeping with Dr. Twin's diverse interests outside medicine, the society plans to bring in speakers who are not directly related to medicine. **Richard Rhodes,** author of the best seller *Making of the Atomic Bomb,* was keynote speaker for the event. His topic was man-made death as opposed to death by disease in today's society.

■ **G. David Dixon, M.D.,** clinical professor of Radiology at UMKC School of Medicine, in March was elected to Membership in the Society of Cardiovascular and Intervential Radiology.

■ **M. Asghar Chaudhary, M.D.,** clinical assistant professor of Medicine at UMKC School of Medicine, recently was elected Fellow of the American College of Physicians.

■ Medical students accounted for one-fourth of this year's UMKC Vice Chancellor for Student Affairs Honor Recipients. Seven of the 24 students who received this recognition for their excellence in academic achievement and service to the campus are May 29 School of Medicine graduates. They are: **Bob Batterson, Mary Beth Esswein, Satchi Hiremath, Martha Margreiter, Matthew Matava, Michael Temporal,** and **Malissa Wood.**

A number of other recently graduated seniors also received honors. They include: **Dawna L. Clarkston, Shari J. Dobkin, Helen L. Johnston,** and **Lisa A. Susman,** who were awarded the American Medical Women's Association Scholarship Achievement Citation; **Mary Beth Esswein,** and **Dee Anna Main,** who received the Founding Dean's Award; and **James R. Finnell,** who received the Humanitarianism in Medicine Award. In addition, **John C. Moad,** and **Dale R. Broome** were awarded Lange Publishing Scholarship Book Awards; **Timothy J. Martin** received the Lemmon Co. Award for Achievement in Obstetrics and Gynecology; and **J. Robert Batterson** and **Malissa J. Wood** received the first annual Western Missouri Friends Group Harry S. Jonas, M.D. Ambassadors' Awards.

MISSOURI REHABILITATION CENTER
Mt. Vernon, Missouri

- Head Trauma Unit
- Transitional Living
- Respiratory Rehabiliation
- Ventilator Weaning
- General Rehabilitation

- Rural setting, away from traffic and crowds

Phone 417/466-3711

A service of the
Missouri Department of Health.

Medicare, Medicaid, and private insurances accepted.

An equal opportunity/affirmative action employer. • Services provided on a nondiscriminatory basis.

St. Louis University

Andrew J. Lechner, Ph.D., associate professor of physiology at St. Louis University School of Medicine, has received two grants from the National Institutes of Health totaling nearly $350,000. Both grants will fund his continuing studies of early lung development.

The National Heart, Lung and Blood Institute awarded him a three-year, $313,236 grant to study the effects of starvation on lung development.

Dr. Lechner received a second grant of $20,993 from the National Institute of Alcohol Abuse and Alcoholism for a pilot study to determine the effects of alcohol on the developing lungs of unborn children.

Researchers at St. Louis University Medical Center are currently testing an investigational drug for its effect on blindness and vision loss in diabetics. The study is being conducted at the Bethesda Eye Institute. The principal investigator is **Jay Fleischman, M.D.**, associate professor of ophthalmology at St. Louis University School of Medicine.

Washington University

J. Neal Middelkamp, M.D., director of ambulatory services at Children's Hospital at Washington University Medical Center, has been elected president-elect of the American Board of Pediatrics. He will become the board's president in January 1988. Dr. Middelkamp has been one of the 12 physicians directing the board since 1983 and one of its oral examiners since 1972. He served as secretary-treasurer in 1986.

The board's 100 examiners administer about 2,500 written and 2,000 oral examinations each year to physicians seeking pediatrics certification. About 1,800 physicians a year are certified as pediatric specialists. The board also develops and standardizes examinations in all the pediatric subspecialties.

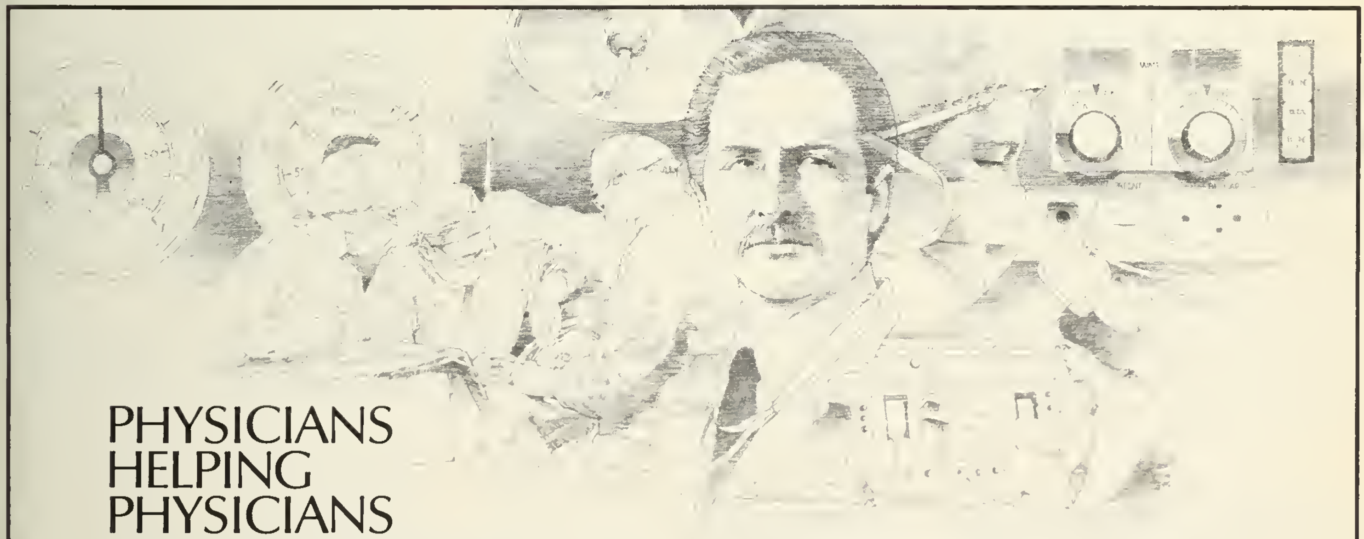
Dr. Middelkamp will be the second president of the American Board of Pediatrics to come from Children's Hospital and Washington University School of Medicine. The first, Dr. Borden Veeder, was a founder of the board and served as its president in 1933.

Dr. Middelkamp, a Washington University professor of pediatrics, received his medical degree from the school in 1948.

Samuel B. Guze, M.D., vice chancellor for medical affairs at Washington University School of Medicine in St. Louis and president of the Washington University Medical Center, has received the Gold Medal Award from the Society of Biological Psychiatry. Guze is the 20th recipient of the award since its inception in 1966.

The society, founded in 1945 to study the biological basis of behavior, established the award to honor pioneering work in the field. Guze was cited for his significant contributions to the advancement and extension of knowledge in biological psychiatry. He has been a leader in research on the genetic and psychiatric aspects of alcoholism, and has contributed to the characterization and reliable diagnosis of schizophrenia and hysteria.

Guze is the Spencer T. Olin Professor of Psychiatry and head of the Department of Psychiatry at the medical school. He is psychiatrist-in-chief at Barnes and Children's hospitals and a consulting psychiatrist to Jewish Hos-



PHYSICIANS
HELPING
PHYSICIANS

Risk Control Associates is more than just a service for physicians; we are an insurance company established, owned, and managed BY physicians. Consequently, RCA is committed to providing a strong, solid posture in claims defense and the highest quality coverage at competitive rates.

We know your needs through our own experience. Part of RCA answering your needs is the Risk Management Program. The principles and procedures of Risk Management have been carefully developed by physicians, clinic managers, lawyers, and insurance people experienced in the medical field.

For competitive quotations on your professional liability, call us, (417) 862-0650.

RISK CONTROL
ASSOCIATES, INC.
MEDICAL LIABILITY INSURORS
1111 S. Glenstone Springfield, MO 65804
MISSOURI CHAPTER 383 COMPANY

pital, all sponsoring institutions of the medical center. He is also a consulting psychiatrist to Malcolm Bliss Mental Health Center in St. Louis.

He joined the School of Medicine faculty in 1951 and has been a member of the executive faculty since 1964. After receiving the doctor of medicine degree from Washington University in 1945, Guze interned in medicine and trained in medicine and psychiatry at Barnes Hospital and at the School of Medicine.

■ **Virginia V. Weldon, M.D.,** deputy vice chancellor for medical affairs at Washington University School of Medicine in St. Louis, has been elected to the National Board of Medical Examiners.

Weldon will serve a four-year term on the board, which develops and monitors standards for the education and qualification of medical personnel. Her duties will include serving on various advisory committees and task forces.

Weldon is vice president of the Washington University Medical Center. She is also immediate past chairman of the Association of American Medical Colleges (AAMC), and the first woman chosen to lead the organization in its 109-year history.

Weldon, professor of pediatrics at the School of Medicine, is a specialist in pediatric endocrinology and is well-known for her studies of mechanisms of abnormal growth in childhood. She joined the faculty in 1968 as an instructor, and was named professor of pediatrics in 1979. She is a physician at Barnes and Children's hospitals, sponsoring institutions of the Washington University Medical Center, and is recognized nationally as a spokesperson on issues in medical education, biomedical research, and legislation affecting health care costs.

■ **Mary Bartlett Bunge, Ph.D.,** professor of anatomy and neurobiology at Washington University School of Medicine, has been appointed to a four-year term on the National Advisory Neurological and Communicative Disorders and Stroke Council of the National Institutes of Health (NIH).

As a member of the council, Bunge will be involved in funding decisions for neurological research grant applications for the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS). As the topmost advisory for the NINCDS, the council's goals are to assess the quality of scientific review panel decisions on grant applications and to make recommendations on funding priorities and relevance.

Bunge recently completed a four-year term on the Neurological Disorders Program Project Review B Committee, one of several scientific review panels that evaluates the quality of neuroscience research grant applications.

She joined the School of Medicine faculty in 1970 as a research assistant professor in anatomy, and was named a full professor in 1978. She received her doctorate from the University of Wisconsin in 1960.

■ **Burton E. Sobel, M.D.,** Tobias and Hortense Lewin Professor of Cardiovascular Diseases at Washington University School of Medicine, has received the 1987 Distinguished Scientist Award of the American College of Cardiology.

An internationally-renowned cardiologist, Sobel was honored both for his outstanding contributions to cardiac research and for his ability to inspire young scientists.

At the medical school, Sobel is director of a Specialized Center of Research (SCOR) that is investigating the heart's response to ischemic injury and trying to identify new therapeutic approaches for heart disease. A faculty member at Washington University since 1973, Sobel is chief of cardiology at Barnes Hospital. He received the doctor of medicine degree magna cum laude from Harvard Medical School, held an internship and residencies in medicine at Peter Bent Brigham Hospital, and trained as an assistant in medicine at Harvard Medical School.

■ **Donald C. Shreffler, Ph.D.,** professor of genetics at Washington University School of Medicine has been honored for his scientific contributions by receiving MERIT status for his latest grant.

The grant, which will exceed $1.3 million over a five-year period, is from the National Institute of Allergy and Infectious Diseases, part of the National Institutes of Health (NIH). Shreffler's research focuses on the genetics of the immunologic system and, specifically, on the genetic basis for organ and tissue transplant rejections.

Shreffler joined Washington University in 1975. In 1977, he was named James S. McDonnell Professor and Head of Genetics, a position he held for seven years. He earned his Ph.D. from the California Institute of Technology in 1962. Shreffler was elected to the National Academy of Sciences in 1982, and has also served as a National Science Foundation research fellow at the Basel Institute for Immunology in Switzerland.

■ **Philip Needleman, Ph.D.,** Alumni Professor and head of the Department of Pharmacology, and **Emil R. Unanue, M.D.,** Edward Mallinckrodt Professor and head of the Department of Pathology, are among 61 new members elected to the National Academy of Sciences.

Needleman was elected in recognition of his research on atriopeptins. Needleman's research team isolated and established the molecular structure of atriopeptins in 1983.

Needleman is also a foremost authority on prostaglandins. He joined the School of Medicine faculty in 1967 as an assistant professor, and was named head of the pharmacology department in 1976. He has held the Alumni Endowed Professorship since 1982, and has been voted Teacher of the Year four times by senior medical students. He received his doctorate from the University of Maryland in 1964, and served postdoctoral and advanced research fellowships at Washington University School of Medicine.

Unanue is an immunopathologist who has centered his research on the interactions among immune system cells. Unanue has been head of the School of Medicine's pathology department since 1985. He also serves as pathologist-in-chief at Barnes, Jewish and Children's hospitals. He came to St. Louis from Harvard Medical School, where he had been a faculty member since 1970 and Mallinckrodt Professor of Immunopathology since 1974. He received the doctor of medicine degree in 1960 from the University of Havana School of Medicine, and served an internship in pathology at Presbyterian University Hospital in Pittsburgh.

■ **Joseph J. Billadello, M.D.,** an assistant professor of medicine in the cardiovascular division, was selected to receive $150,000 for the next three years to conduct research as a Syntex Scholar in recognition of his outstanding potential for contributions to the cardiovascular field.

Billadello came to the School of Medicine as a fellow in clinical cardiology in 1981. After completing a postdoctoral fellowship in biological chemistry, he joined the faculty in 1985 and was named assistant professor in 1986.

Continuing Medical Education

The continuing medical education accreditation program of the MSMA has full approval by the AMA's Council on Medical Education. The institutions and functions listed here qualify for Category I credit for the AMA Physician's Recognition Award. All accredited institutions in Missouri are invited to send this information for listing in MISSOURI MEDICINE. Please remember to include the name of the individual who can be contacted at your institution for additional information about your CME events.

July

18 **Interoperative Radiation: A New Combined Treatment Approach to Cancer** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

August

1-8 **Rhinology, Rhinologic Surgery and Rhinomanometry** — Location: UMKC School of Dentistry, Kansas City. Contact: Pat A. Barelli, M.D., course director, 2929 Baltimore, Suite 105, Kansas City, MO 64108. 816/561-4423.

6 **Review of Orthopedic Infections** — Location: Washington University Medical Center. Contact: Loretta Giacoletto, Washington University School of Medicine, Box 8063, 660 S. Euclid, St. Louis, MO 63110. 314/362-6893.

27-28 **Developing and Implementing Medical and Legal Procedures for the Treatment of Terminally Ill Patients** — Location: Omni Hotel, St. Louis, MO 63103. Contact: Christopher Janku, The Missouri Bar, Jefferson City, MO 65102. 314/635-4128.

September

2-3 **Advanced Cardiac Life Support Provider Course** — Location: Francisco Lounge, Student Center, University of Kansas Medical Center. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

9 **Sixteenth Annual Wendell G. Scott Lecture** — Location: Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, MO. Contact: Ronald G. Evans, M.D., Director, Mallinckrodt Institute of Radiology, 510 South Kingshighway, St. Louis, MO 63110. 314/362-7100.

25 **Nutrition Concerns for Women: A Symposium for Health Professionals** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

25-27 **Missouri Thoracic Society Ozark Chest Conference VII: Infectious Disease and Asthma** — Location: Tan-Tar-A Resort Hotel, Lake Ozark, MO. Contact: Sheldon R. Braun, M.D., University of Missouri Hospital and Clinics, Room MA 419, Division of Pulmonary and Critical Care Medicine, Columbia, MO 65212. 314/882-2991. May also contact the American Lung Association of Eastern Missouri (St. Louis) or Western Missouri (Kansas City).

29-30 **Cancer and Aging** — Location: Clarion Hotel, St. Louis. Contact: Cheryl Mason, Symposium Secretary, VA Medical Center, GRECC (111G-JB), St. Louis, MO 63125. 314/894-4659.

October

3-4 **Infectious Disease Update 1987** — Location: Tan-Tar-A, Osage Beach, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

9-10 **Allergy, Immunology and Rheumatology: Review and Update** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

9-10 **30th Annual Physician Alumni Weekend** — Location: UMC School of Medicine, MA217 CME Auditorium, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

15-25 **Allergy Abroad** — Locations: Stockholm, Copenhagen, London. Contact: Loretta Giacoletto, Washington University School of Medicine, Box 8063, 660 S. Euclid, St. Louis, MO 63110. 314/362-6893.

17 **Rheumatology Former Fellows Conference** — Location: Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

20-21 **Medicine and Religion: Issues in the Eighties** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

22-23 **Chronic Obstructive Pulmonary Disease Update** — Location: Holiday Inn Executive Center, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

November

5-7 **Annual Fall Clinical Conference** — Location: Alameda Plaza Hotel, Kansas City, MO. Contact: Linda F. Smutz, Executive Director, Kansas City Southwest Clinical Society, 222 West Gregory, Kansas City, MO 64114. 816/523-3383.

7 **Rheumatology Update** — Location: Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

13-15 **14th Annual Symposium: Anesthesia and the Geriatric Patient** — Location: The Marriott Pavilion Hotel, One Broadway, St. Louis, MO. Contact: Geriatric Symposium, Department of Anesthesiology, Box 8054, Washington University School of Medicine, 660 S. Euclid Avenue, St. Louis, MO 63110. 314/362-6973.

18-20 **Clinical Advances In Pediatrics: A Postgraduate Course** — Location: Children's Mercy Hospital, Kansas City, MO. Contact: Kurt Metzl, M.D., Course Director, Menorah Medical Center, 4949 Rockhill Road, Kansas City, MO 64110. 816/276-8825.

December

7-8 **33rd Annual Urology Seminar** — Location: Hyatt Regency Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

CASH FLOW HEADACHES?

TAKE TWO MINUTES AND CALL US IN THE MORNING.

At best, poor cash flow can be a real pain. At worst, it can cripple your practice. Now fortunately, there's a cure: the Medical Information Management System (MIMS).

It's IBM compatible, multi-user software designed with your needs in mind.

It can bill patients immediately, and file insurance claims electronically. This feature alone cuts payment time from months to as few as four days.

If you're suffering from cash flow headaches, take two minutes and call us toll-free. We'll send you our informative brochure and help you improve your financial health.

1-800-643-8365

MIMS
Medical Information Management Systems

D.O.C., Inc.
P.O. Box 2476
Little Rock, AR 72203

Classifieds

CLASSIFIED ADVERTISING INFORMATION

Rates: $15 per insertion for 50 words or less for members and $25 per insertion for 50 words or less for nonmembers, with an additional 25¢ per word in excess of 50.

Copy Deadline: Copy due by the first of the month prior to month of publication. Send to MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City 65102.

Word Count: Count as one word all single words, two initials of a name, each abbreviation, isolated numbers, groups of numbers, hyphenated words. Count file numbers as five words.

File Numbers — Advertisers using file numbers forbid disclosure of their identity. Written inquiries are forwarded to such advertisers. To assure prompt delivery when replying to an advertisement with a Journal file number, address letters as follows: File (insert number), c/o Missouri State Medical Association, P.O. Box 1028, Jefferson City, Mo. 65102.

All advertisements are subject to approval by the Editorial Board prior to acceptance.

Physicians Wanted

Healthline Physician Services, an affiliate of St. Louis University Medical Center, has part-time and full-time opportunities available for physicians in Emergency Department, Clinic, and Locum Tenens work. We are presently recruiting for emergency departments in St. Louis city and metropolitan area. Excellent compensation, flexible schedules, administrative opportunities and benefits, no "on-call" responsibilities and a challenging medical environment. If you are just starting out, looking for a career change, or want to supplement your income from another source please contact: Barry Trautman, Healthline Physician Services, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Internist BC/BE with or without subspecialty to join five-physician single specialty group practice in S.W. Missouri serving a population of 1,000,000+. Excellent opportunity with competitive salary guaranteed plus incentive bonus. Malpractice and excellent benefits paid; opportunity for ownership. Pleasant recreational environment in the Ozarks. Please call or mail CV to Administrator, The Diagnostic Clinic, 3443 South National, Springfield, MO 65807. 417/883-3443.

Missouri: Our 264 bed regional medical center is seeking an emergency physician who is preferably board certified/prepared. We offer the chance to practice in a newly built Level II trauma center and remodeled ED department with 12,000 patient visits/year. Highly competitive salary and benefits package available. Cape Girardeau, university city of 40,000, is the largest center for health care, retail trade, cultural activities, and entertainment between St. Louis and Memphis. Excellent school systems and superb recreational activities are available. Send CV to David Trantham, M.D., FACEP, 3201 Lakewood, Cape Girardeau, MO 63701; or call 314/651-6110.

Family physicians with 3-10 years of private practice experience wanted to join the professional staff of two Kansas City area primary care offices. Candidates should have an exemplary record in clinical practice and be self-motivated to work in expansion-oriented practices. Please call Health Resources, Ltd., 816/587-0920.

Urologist — VA Medical Center, Lincoln, Nebraska. Seeking board certified or board eligible urologist for progressive affiliated 180-bed Medical Center. Center is affiliated with University of Nebraska for urology residency program. Salary and bonus pay commensurate with training and experience. Licensure any state. Must meet English proficiency requirement. Allowable moving expenses payable. Write or call: Chief, Surgical Service, VA Medical Center, 600 South 70th Street, Lincoln, NE 68510. 402/489-3802. Equal Opportunity Employer.

Internist, BC/BE, U.S. Trained. Needed to join four-physician practice. $9,000 per month salary, possible bonus, plus full benefits. Full partnership available. Located one hour from Memphis, Tennessee, on I-55. Send CV to: Merrill J. Osborne, M.D., Tenth and Highland Streets, Blytheville, Arkansas 72315 or call 501/762-5360.

One Psychiatrist — needed to complement a team of dynamic psychiatrists and general physicians. Located 65 miles south of St. Louis on Highway 67, our hospital has 318 beds. We are looking for Board Certified or Eligible specialists. Remuneration will range from $67,000 up, depending on years of experience, Board Certification and optional on-call days. Fringe benefits come to an additional 35% of the salary which includes vacation time, sick time, CME allowance, health insurance and life insurance. For detailed information, please write to: Adolph J. Herath, M.D., Medical Director, Farmington State Hospital, Farmington, MO 63640 or call 314/756-6792, extension 347.

Emergency Medicine in IL and MO — Full and part-time positions available in emergency departments and clinics for qualified physicians seeking lucrative employment opportunities. Outstanding remuneration and comprehensive malpractice insurance provided. For further information contact: Deborah Bergun, staffing specialist. National Emergency Services, Inc., 255 Executive Dr., Suite 104, Plainview, NY 11803 or call 1-800-645-4848 or 516/349-0100.

OB/GYN Family Practitioner Wanted — To join 14-physician multi-specialty group. Must be Board certified or Board eligible. Competitive salary and excellent fringe benefits. Send CV reply to Medical Arts Clinic, Inc., 301 W. Liberty, Farmington, MO 63640. Attention: Ronald G. Stevens, Administrator. Or call 314/756-6751.

Pediatrician to join well-established, 15 physician, multi-specialty group. Excellent fringe benefits with early partnership opportunity for board certified or board eligible physician. Call or write Richard N. Motley, clinic manager, The Hannibal Clinic, 711 Grand, Hannibal, MO 63401. 314/221-5250.

Radiology: A progressive 36-bed hospital with a 100-bed long term care unit in a rural community is seeking a radiologist. 25-50 miles from four medium to large metropolitan areas. Large recreational lake nearby. Would consider $60,000 guaranteed salary and/or time share with another nearby hospital. Contact Gary Fowler, Admin., Jefferson County Memorial Hospital 913/774-4340.

Physicians Wanted

Full-Time Private Practice Opportunities from Healthline Physician Services, an affiliate of St. Louis University Medical Center, for the following specialties: Board Eligible or Board Certified Internal Medicine, and Board Certified Family Practice, Pediatrics and OB-GYN. Positions include income guarantee and no capital investment. For more information contact: Barry Trautman, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Opening for a Family Practice, Internist, OB/GYN. Suburb of St. Louis. Will consider salary, partnership or association. Please write with complete resume to File #2, c/o MSMA, P.O. Box 1028, Jefferson City, MO 65102.

Family practice & internists — BC/BE, needed to join multispecialty and single specialty practices. Substantial salary, plus full benefits. Full partnership available. City population 25,000. 160-bed JCAH approved hospital. Located one hour from Memphis, Tennessee on I-55. Send CV to: Marvin D. Hendrix, Clinic Administrator, P.O. Box 2311, Jonesboro, AR 72402.

Pediatrician, Radiologist, Orthopedic Surgeon, Family Practice, OB/GYN, General Internist & ENT — needed for two-hospital, historic river town of 20,000. Drawing area of approximately 60,000 with new 19,000 acre recreational lake. Unlimited potential. Contact: Carol Neil, Physician Recruitment, 623 Broadway, Hannibal, MO 63401 or call 314/221-3107.

Department of Health and Human Services, Kansas City, MO: Physicians needed to work under contract for the Social Security Administration Disability Insurance Program. Specialties needed include internal medicine, psychiatry, clinical psychology, surgery and neurology, with a minimum of 8 hours/week at $48.71/hour. Also needed are specialists in ophthalmology and orthopedics, with a minimum of 4 hours/week at $48.71/hour. The program involves review of medical evidence in disability claims at central location in Kansas City, MO. No contact with patients. For information, contact Kathy Costanzo, Contracting Officer, Department of Health and Human Services, Room 206, 601 E. 12th St., Kansas City, MO 64106. 816/374-3536.

Positions Wanted

Position wanted. Board Certified Cardiologist (internist) Invasive — Non Invasive, Missouri licensed, wishes to join group, hospital, industry, company, etc. Reply to Box No. 8, c/o MSMA, P.O. Box 1028, Jefferson City, MO 65102.

Practices for Sale

Private Practice Opportunities: Family Practice and Internal Medicine, no cash outlay, attractive salary, excellent incentive compensation, liberal benefits including malpractice. Prospective for OB/GYN, Pediatrics, Psychiatry. Send C.V. to Don Hoit, Farris & Associates, Inc., 16216 Baxter Road, Suite 200, Chesterfield, MO 63017 (314) 532-4880.

Practice Wanted

Board certified psychiatrist wants to buy a psychiatric practice in St. Louis Metropolitan area. Please reply c/o Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102, File #10.

Malpractice Insurance

◆◆◆

Michael Howard Ruffin

Licensed Insurance Broker
Professional Liability Insurance Consultant

818 Olive St., Suite 958
St. Louis, Missouri 63101
Office: (314) 421-5754

◆◆◆

Professional Insurance Service
To The Medical Profession
In Missouri

THE NAVAL RESERVE NEEDS YOU!

The Naval Reserve is actively seeking Physicians due to the expanded requirements of the military Fleet Hospital Program. All medical specialities are needed, particularly Surgeons and Anesthesiologists.

Alter your Practice routine by serving your country as a Naval Officer.

We offer:
- Flexibility in drill schedule
- 4 days' pay for 2 days' work
- Educational loan repayment program
- Continuing Medical Education (CME)
- The opportunity to travel and do something special

Contact: (913) 764-3664

See the difference in the first week[1]

- **Sleep improvement in 74% of patients after first h.s. dose[2]**
- **Significantly faster relief–62% of total four-week improvement evident in first week versus 44% with amitriptyline alone[1]**
- **Dramatic first-week reduction in somatic complaints[2]**

% Reduction in Somatic Symptoms[2]

Vomiting	Nausea	Headache	Anorexia	Constipation
Reduced 90%	Reduced 86%	Reduced 72%	Reduced 62%	Reduced 60%

- **Only ⅓ the dropout rate due to side effects of amitriptyline alone, although the incidence of side effects is similar[1]**

Caution patients about the combined effects of Limbitrol with alcohol or other CNS depressants and about activities requiring complete mental alertness, such as operating machinery or driving a car. In general, limit dosage to the lowest effective amount in elderly patients.

Copyright © 1987 by Roche Products Inc. All rights reserved.

Protect your decision.
Write "Do not substitute."

In moderate depression and anxiety

Limbitrol®

Each tablet contains 5 mg chlordiazepoxide and 12.5 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

Limbitrol® DS

Each tablet contains 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

---

eferences: 1. Feighner JP, *et al* *Psychopharmacology 61* 217-225, Mar 22, 1979. **2.** Data on file, offmann-La Roche Inc., Nutley, NJ

---

imbitrol® Ⓒ IV
ranquilizer—Antidepressant
efore prescribing, please consult complete product information, a summary of which follows:

ndications: Relief of moderate to severe depression associated with moderate to severe anxiety.

ontraindications: Known hypersensitivity to benzodiazepines or tricyclic antidepressants. Do not use ith monoamine oxidase (MAO) inhibitors or within 14 days following discontinuation of MAO inhibitors nce hyperpyretic crises, severe convulsions and deaths have occurred with concomitant use, then itiate cautiously, gradually increasing dosage until optimal response is achieved. Contraindicated uring acute recovery phase following myocardial infarction.

arnings: Use with great care in patients with history of urinary retention or angle-closure glaucoma evere constipation may occur in patients taking tricyclic antidepressants and anticholinergic-type rugs. Closely supervise cardiovascular patients. (Arrhythmias, sinus tachycardia and prolongation of onduction time reported with use of tricyclic antidepressants, especially high doses. Myocardial farction and stroke reported with use of this class of drugs.) Caution patients about possible combined fects with alcohol and other CNS depressants and against hazardous occupations requiring complete ental alertness (*e.g.*, operating machinery, driving).

***Usage in Pregnancy:* Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

nce physical and psychological dependence to chlordiazepoxide have been reported rarely, use aution in administering Limbitrol to addiction-prone individuals or those who might increase dosage; ithdrawal symptoms following discontinuation of either component alone have been reported ausea, headache and malaise for amitriptyline; symptoms [including convulsions] similar to those barbiturate withdrawal for chlordiazepoxide).

recautions: Use with caution in patients with a history of seizures, in hyperthyroid patients or those thyroid medication, and in patients with impaired renal or hepatic function. Because of the possibility suicide in depressed patients, do not permit easy access to large quantities in these patients. Periodic er function tests and blood counts are recommended during prolonged treatment. Amitriptyline mponent may block action of guanethidine or similar antihypertensives. When tricyclic antidepres- nts are used concomitantly with cimetidine (Tagamet), clinically significant effects have been reported volving delayed elimination and increasing steady state concentrations of the tricyclic drugs. ncomitant use of Limbitrol with other psychotropic drugs has not been evaluated; sedative effects ay be additive. Discontinue several days before surgery. Limit concomitant administration of ECT to sential treatment. See Warnings for precautions about pregnancy. Limbitrol should not be taken ring the nursing period. Not recommended in children under 12. In the elderly and debilitated, limit to nallest effective dosage to preclude ataxia, oversedation, confusion or anticholinergic effects.

verse Reactions: Most frequently reported are those associated with either component alone owsiness, dry mouth, constipation, blurred vision, dizziness and bloating. Less frequently occurring reactions include vivid dreams, impotence, tremor, confusion and nasal congestion. Many depressive symptoms including anorexia, fatigue, weakness, restlessness and lethargy have been reported as side effects of both Limbitrol and amitriptyline. Granulocytopenia, jaundice and hepatic dysfunction have been observed rarely.

The following list includes adverse reactions not reported with Limbitrol but requiring consideration because they have been reported with one or both components or closely related drugs:

Cardiovascular: Hypotension, hypertension, tachycardia, palpitations, myocardial infarction, arrhythmias, heart block, stroke.

Psychiatric: Euphoria, apprehension, poor concentration, delusions, hallucinations, hypomania and increased or decreased libido.

Neurologic: Incoordination, ataxia, numbness, tingling and paresthesias of the extremities, extrapyramidal symptoms, syncope, changes in EEG patterns.

Anticholinergic: Disturbance of accommodation, paralytic ileus, urinary retention, dilatation of urinary tract.

Allergic: Skin rash, urticaria, photosensitization, edema of face and tongue, pruritus.

Hematologic: Bone marrow depression including agranulocytosis, eosinophilia, purpura, thrombocytopenia.

Gastrointestinal: Nausea, epigastric distress, vomiting, anorexia, stomatitis, peculiar taste, diarrhea, black tongue.

Endocrine: Testicular swelling and gynecomastia in the male, breast enlargement, galactorrhea and minor menstrual irregularities in the female, elevation and lowering of blood sugar levels, and syndrome of inappropriate ADH (antidiuretic hormone) secretion.

Other: Headache, weight gain or loss, increased perspiration, urinary frequency, mydriasis, jaundice, alopecia, parotid swelling.

Overdosage: Immediately hospitalize patient suspected of having taken an overdose. Treatment is symptomatic and supportive. I.V. administration of 1 to 3 mg physostigmine salicylate has been reported to reverse the symptoms of amitriptyline poisoning. See complete product information for manifestation and treatment.

Dosage: Individualize according to symptom severity and patient response. Reduce to smallest effective dosage when satisfactory response is obtained. Larger portion of daily dose may be taken at bedtime. Single *h.s.* dose may suffice for some patients. Lower dosages are recommended for the elderly. Limbitrol DS (double strength) Tablets, initial dosage of three or four tablets daily in divided doses, increased up to six tablets or decreased to two tablets daily as required. Limbitrol Tablets, initial dosage of three or four tablets daily in divided doses, for patients who do not tolerate higher doses.

How Supplied: *Double strength (DS) Tablets,* white, film-coated, each containing 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt), and *Tablets,* blue, film-coated, each containing 5 mg chlordiazepoxide and 12.5 mg amitriptyline (as the hydrochloride salt). Available in bottles of 100 and 500, Tel-E-Dose® packages of 100, Prescription Paks of 50.

ROCHE®
ROCHE PRODUCTS INC.
Manati, Puerto Rico 00701

P.I. 0585

The rewards of Limbitrol You're both smiling agai

10 SHATTUCK ST.
BOSTON, MA 02115

See the difference in the first week[1]

In depressed and anxious patients, you can see the difference sooner—62% of total four-week improvement achieved in the first week with Limbitrol versus 44% with amitriptyline.[1]

In moderate depression and anxiety

Limbitrol®

Each tablet contains 5 mg chlordiazepoxide and 12.5 mg amitriptyline (as the hydrochloride salt) (IV)

Limbitrol® DS

Each tablet contains 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt) (IV)

ROCHE®

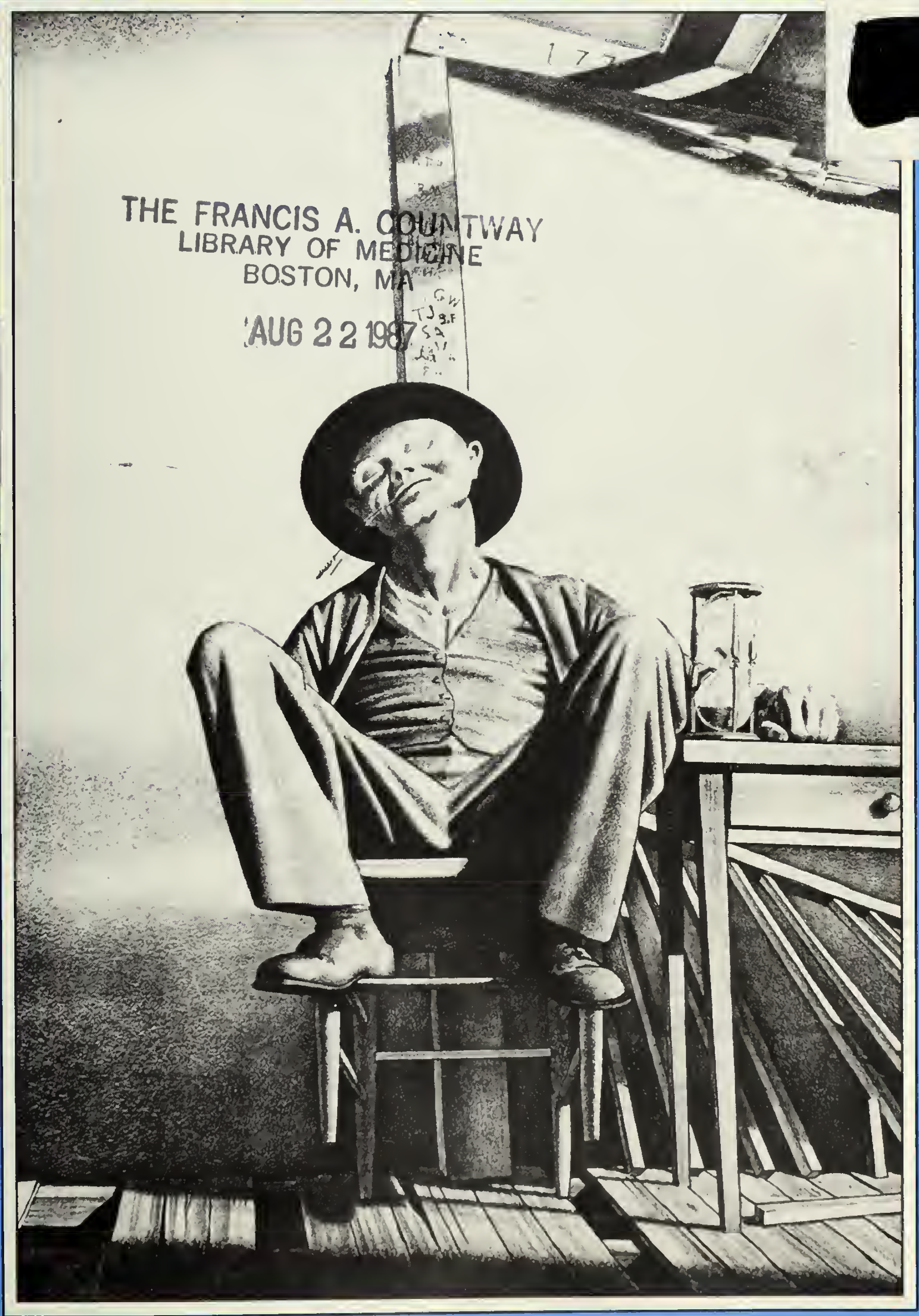
Please see summary of product information on adjacent pa

Missouri Medicine

Journal of the Missouri State Medical Association

August 1987

[redacted]



THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA

AUG 22 1987

1987-88 MSMA DIRECTORY

HAD A SUIT
PRESSED
LATELY?

Professional liability insurance is designed to protect you in the event of an allegation of medical malpractice. If you have ever been sued, you realize the importance of the claims staff of your insurance carrier.

MOMEDICO employs a staff of highly trained professionals to help you deal with claims and lawsuits. Our record speaks for itself—of all claims which have been handled to conclusion, 81.4% have been closed without payment of indemnity. We care about your professional reputation. We will not compromise a claim simply to save defense dollars.

Choose the carrier that puts your reputation above frivolous remuneration.

MOMEDICO

10795 Watson Road, St. Louis, MO 63127
314-965-1003 or toll free 800-392-8039

Jefferson City Office, 113 Madison
Jefferson City, MO 65101, 314-634-8090

Kansas City Office, 9229 Ward Parkway, Suite 290
Kansas City, MO 64114, 816-363-6161

Founded by the Missouri State Medical Association

Contents

ON CALL

Missouri State Medical Association
314/636-5151

American Medical Association
312/645-5000

MSMA Physician Rehabilitation Hotline
816/531-1258

MOMEDICO
1-800-392-8039

Dodson Insurance Group
1-800-892-3431

E. F. Hutton
(Call collect) 314/725-9690

Forrest T. Jones
1-800-892-7272

Fred S. James
Kansas City 816/842-6670
St. Louis 314/863-7777

Health Care Financing Administration
816/374-5233

Intrav
314/727-0500

Medicaid Provider Relations
1-800-392-0938

Medicare Provider Relations
1-800-392-3070

Medicare Part B Blue Cross Blue Shield
Kansas City
1-800-654-9629

Missouri Department of Health
314/751-6400

Missouri Department of Social Services
314/751-2086

Missouri Patient Care Review Foundation
(Preadmission) 1-800-392-8060
(General Info) 1-800-392-1312

Missouri State Bureau of Narcotics and Dangerous Drugs
314/751-8042

Missouri State Board of Registration of the Healing Arts
314/751-2334

Cover

"It's Later Than You Think," variant title **"Wake Up, America"** by American artist Rockwell Kent. The signed lithograph was completed in 1945 and measures 13 3/16 x 9 7/16 inches. It is in the private collection of Harry B. Cohen, M.D., *Mexico.*

Departments

403 Progress Notes
426 Letters to the Editor
554 Index to Advertisers
554 Information for Contributors
555 Continuing Medical Education
557 Classifieds

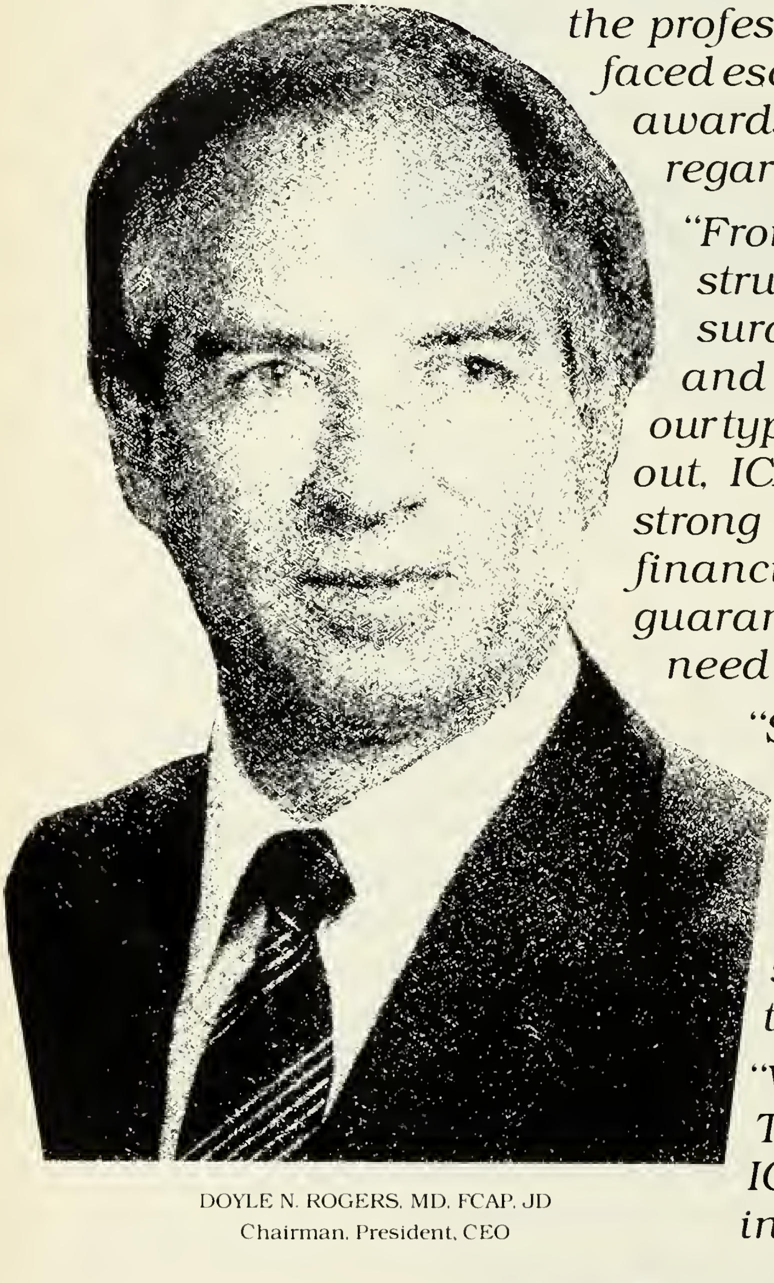
Special Information

407 Your Directory
408 MSMA Officers, AMA Delegates and Alternates, Councilors and Vice Councilors
415 Code Numbers for Component Medical Societies
417 Designated Specialty Codes
419 Councilor Districts and Counties in Each District
420 Guide to Component Medical Societies
422 MSMA Committees and Commissions
425 Directory of Medical Specialty Organizations
427 Metropolitan Specialty Organizations
429 Insurance Plans Available to MSMA Members
430 Missouri Volunteer Health Agencies
435 Physician Rehabilitation Directory
475 Component Society Executives

Rosters

439 Alphabetical Roster
477 Component Society Roster

"We Understand Your Frustration."



DOYLE N. ROGERS, MD, FCAP, JD
Chairman, President, CEO

"You don't need to be told how tough the last few years have been in the professional liability arena. You've faced escalating premiums, escalating awards and escalating frustrations, regardless who insures you.

"From our side of the table, we've struggled with diminishing reinsurance, exhorbitant claims costs and an industry-wide change in our type of insurance policy. Throughout, ICA has strived to maintain a strong balance sheet, because our financial stability is your only real guarantee that we'll be here if you need us.

"So, we made tough and sometimes, unpopular, decisions. But the bottom line is this: We've positioned ourselves as a strong force in the professional liability business, for today and tomorrow.

"We'll be here if you need us. That's what we both want. At ICA, we're committed to protecting your practice."

ICA INSURANCE CORPORATION OF AMERICA
Houston, Texas (713) 871-8100
The Professional Liability Specialist

Missouri Medicine

Vol. 84, No. 8

Journal of the Missouri State Medical Association

August 1987

Editor
Jordan W. Burkey, M.D.
Associate Editor
Donald G. Sessions, M.D.
Managing Editor
Susan Flanigan Gold
Business Manager
Royal O. Cooper
Editorial Assistant
Valerie Peters

EDITORIAL BOARD

Anesthesiology
George P. Hoech, Jr., M.D.
Cardiovascular Surgery
Jack J. Curtis, M.D.
Dermatology
Philip C. Anderson, M.D.
Ernest Lorenc, M.D.
Emergency Medicine
David M. Trantham, M.D.
Family Practice
William D. Bradshaw, M.D.
Carl R. Kruse, M.D.
Kirby L. Turner, M.D.
Gastroenterology
Jay P. Marshall, II, M.D.
Internal Medicine
John S. Daniels, M.D.
Stephen Hamburger, M.D.
Robert K. Skillman, M.D.
Neonatology
Elizabeth J. James, M.D.
Neurosurgery
Fred D. Fowler, M.D.
Obstetrics and Gynecology
Thomas M. Mier, M.D.
Oncology
Michael C. Perry, M.D.
Ophthalmology
John C. Hagan, III, M.D.
F. Thomas Ott, M.D.
Orthopedics
Raymond A. Ritter, Jr., M.D.
Otorhinolaryngology
Bentley A. Nelson, M.D.
Pathology
Eugene F. Tucker, M.D.
Pediatrics
R. Don Blim, M.D.
Psychiatry
William F. Clary, M.D.
Radiation Therapy
MacDonald B. Logie, M.D.
Radiology
Frederick M. Brandon, M.D.
Donald R. Germann, M.D.
General Surgery
Richard O. Craig, M.D.
Donald Silver, M.D.
Urology
Gilbert Ross, Jr., M.D.

PUBLICATIONS COMMITTEE

Chairman
Jordan W. Burkey, M.D.
Vice-Chairman
Donald G. Sessions, M.D.
Members
Donald E. Menchetti, M.D.
Jerry W. Templer, M.D.
John K. Layle, M.D.
Earl R. Schultz, M.D.

MSMA STAFF

Executive Vice President
Royal O. Cooper
Executive Director
C. C. Swarens
Director of Scientific Affairs
Ron Ellison
Field Secretary
Don Wilson
Director of Governmental Relations
Gary Dey
Director of Communications
R. Kay Dinolfo

Devoted to the interest of the medical profession and public health in Missouri

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA

AUG 22 1987

MSMA Officers

President	Larry G. Piepergerdes, M.D., *Kansas City*
President-Elect	T. J. Cooper, M.D., *St. Louis*
Secretary	Berry Ivy, M.D., *Springfield*
Treasurer	Jay Meyer, M.D., *St. Louis*
Immediate Past President	H. Peter Ekern, M.D., *Mexico*
Vice President	William J. Medlicott, M.D., *Kansas City*
Vice President	William C. Allen, M.D., *Columbia*
Vice President	John P. Roberts, M.D., *St. Louis*
Speaker	Arlen D. Winsky, M.D., *Springfield*
Vice-Speaker	Jo-Ellyn M. Ryall, M.D., *St. Louis*

Councilors

Marvin A. Singleton, M.D., *Joplin*, Chairman
Gary A. Dyer, M.D., *St. Joseph*, Vice Chairman
Robert V. Tompson, M.D., *Moberly*
William H. Huffaker, M.D., *St. Louis*
J. Otto Lottes, M.D., *St. Louis*
Arturo Montes, M.D., *St. Louis*
Frederick D. Peterson, M.D., *St. Louis*
David Wilkinson, M.D., *St. Louis*
Carol F. Williams, M.D., *St. Louis*
J. Michael Conoyer, M.D., *St. Peters*
Alan L. Braun, M.D., *Jefferson City*
Kenneth L. Rall, M.D., *Columbia*
A. J. Campbell, M.D., *Sedalia*
Raymond J. Caffrey, M.D., *Independence*
Robert T. Gibbons, M.D., *Prairie Village, KS*
Frederick W. Hahn, M.D., *Kansas City*
Dorothy D. Reister, M.D., *Shawnee Mission, KS*
Francis M. Corry, M.D., *Springfield*
David O. Barbe, M.D., *Mountain Grove*
Melvin C. Kasten, M.D., *Cape Girardeau*
Dean Blakeley, *Columbia*
Charles W. Barbee, M.D., *Columbia*
Gerry A. Love, M.D., *Kansas City*

Vice Councilors

Stephen Vilmer, M.D., *Shawnee Mission, KS*
Carl R. Kruse, M.D., *Palmyra*
Frank Ostapowicz, M.D., *Clayton*
Sammy L. Farrell, M.D., *Washington*
Jerry Murrell, M.D., *Columbia*
Jerry Meyer, M.D., *Concordia*
Mark W. Martin, M.D., *Lee's Summit*
David W. Hall, M.D., *Rogersville*
Thomas R. Stubbs, M.D., *West Plains*
William C. Shell, M.D., *Sikeston*
Evan Saunders, *St. Louis*
William Dorzab, M.D., *Kansas City*
Victoria Martin, M.D., *Shawnee Mission, KS*

AMA Delegates

Francis X. Lieb, M.D., *St. Louis*
Hugh E. Stephenson, Jr., M.D., *Columbia*
George M. Bohigian, M.D., *St. Louis*
Melvin C. Kasten, M.D., *Cape Girardeau*
Larry G. Piepergerdes, M.D., *Kansas City*
Vernon H. Balster, M.D., *St. Louis*
Walter A. German, M.D., *Springfield*

Printing Office: The Ovid Bell Press, Inc., Fulton 65251

Missouri Medicine (ISSN 0026-6620) is published monthly by the Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102.

Subscription rates: $15 per year. Interns and Residents, $7.50 per year

Second class postage paid at Jefferson City, Missouri and at additional mailing offices.

Postmaster: Send address changes to Missouri State Medical Association, c/o Membership Department, P.O. Box 1028, Jefferson City, MO 65102.

The articles published in *Missouri Medicine* represent the opinions of the authors, and do not necessarily reflect the official policy of the Missouri State Medical Association.

Copyright © 1987 by the Missouri State Medical Association. All rights reserved.

Publication number 355380.

Doctor-Lawyer?

Today's physician may suffer from occupational confusion. Certainly, with malpractice suits so frequent, and dare we say "popular", it's no wonder that physicians today find themselves half doctor-half lawyer.

At Medical Defense Associates, we feel that if you were trained in the healing arts, that's what should concern you, not the practice of law. That's why MDA offers comprehensive protection against malpractice suits on a not-for-profit basis. Should you receive an unmerited claim, we'll fight it for you. That's because MDA answers only to its policyholders, not stockholders! Don't risk policy limits that really aren't sufficient for today's liability climate.

Call us, toll free, and let's talk about protection for your career. With MDA, you'll probably spend a lot more time practicing medicine . . . and, a lot less time in court.

Call toll free 1-800-492-7212

Medical Defense Associates

P.O. Box 3817
Springfield, MO 65808

Represented by Wedgeworth and Co. Ltd.
dba Missouri Malpractice Managers

MSMA Progress Notes

State PRO hires Bradshaw

On July 1, 1987, William D. Bradshaw, M.D. of Columbia assumed his new responsibilities as President of the Missouri Patient Care Review Foundation, the state PRO. The former Dean of the University of Missouri-Columbia (UMC) School of Medicine succeeds Mohammad N. Akhter, M.D., M.P.H., who announced in March that he would return this summer to his native Pakistan.

"I am fortunate to be inheriting a quality staff that is committed to the Board's policies and philosophy," said Dr. Bradshaw regarding his new position. He added that the Foundation's philosophy and functioning are on firm footing.

Dr. Bradshaw identified three tenets that will characterize his leadership. "First and foremost, assuring the quality of care provided to Medicare patients in this state will continue to be the Foundation's number one priority." In addition, he stressed the maintenance of a fair, reasonable and consistent review process. He also will continue the policy emphasizing education of physicians and hospitals over punitive measures.

A Missouri native, Dr. Bradshaw received a B.S. degree in medicine at UMC then obtained his medical degree from the University of Kansas in 1954. He is board-certified in family practice, and maintained a private practice clinic in Clinton, MO, from 1955-1975. In 1976 he joined the faculty of the UMC School of Medicine and served as the Director of Continuing Medical Education until 1983. Dr. Bradshaw was appointed Dean of the medical school in 1983, and served in that capacity until 1986.

In 1986, Dr. Bradshaw was elected by his Mid-Missouri peers to serve on the Board of the Missouri Patient Care Review Foundation. Kenneth Rall, M.D., Board Chairman, said, "Dr. Bradshaw brings a wealth of clinical and administrative experience and an already distinguished career to this critical position (of PRO President). . . . The President must be able to balance the often conflicting demands of patients, physicians, hospitals and the federal government in the context of myriad federal rules and regulations that rarely remain static. In selecting Dr. Bradshaw for this position, the Board has made a clear statement regarding the high esteem in which it holds him." ■

Autologous blood resource center established

Autologous blood use is rapidly increasing and has been endorsed by the Council of Scientific Affairs of the American Medical Association.

In response to this increasing practice, the American Association of Blood Banks (AABB) recently established a National Autologous Blood Resource Center (NABRC). The Resource Center's purpose is to promote the use of preoperative deposit of autologous blood and the intraoperative and postoperative salvage of shed blood.

The Center has developed pamphlets concerning predeposit blood donation for patients, physicians and allied health personnel. A brochure addressing intraoperative and postoperative blood salvage directed towards physicians is also available. In addition, detailed protocols for establishing these services in hospitals and blood centers can also be obtained from NABRC.

Pamphlets and protocols are available without charge. For more information, contact Ms. Lieta Maffei, MT(ASCP)SBB, Autologous Blood Specialist, AABB National Office, 117 N. 19th St., Suite 600, Arlington, VA 22209 703/528-8200. ■

Missouri Register update

These items appeared in the June 15, 1987, Missouri Register:

- The Department of Health (Department) published a proposed amendment requiring the Department to supply forms for reporting communicable diseases. In addition, the Human Immunodeficiency Virus (HIV) seropositivity would be added to the list of diseases that must be reported within seven days.
- Approved methods and analytical principles for determining blood alcohol content from blood were also published. Blood samples are to be collected in a clean, dry container that has an air-tight, inert stopper and contains either sodium heparin, potassium oxalate or sodium fluoride to serve as an anticoagulant. An emergency rule became effective May 31, 1987.
- In addition, the Department published a proposed rule establishing an information registry and reporting system of head and spinal cord injured persons.

AMA reports available

MSMA members interested in the major reports adopted or filed by the 1987 AMA House of Delegates may obtain them from MSMA. Merely review the list below, and request the reports by number. Direct inquiries to: MSMA, P.O. Box 1028, Jefferson City, MO 65102 314/636-5151.

1. Use of Drugs by Athletes (Board of Trustees)
2. Religious Exemptions from Immunizations (Scientific Affairs Council)
3. Prevention and Control of AIDS — An Interim Report (Board of Trustees)
4. Public and Physician Education Regarding the Use of Animals in Biomedical Research (Board of Trustees)
5. AIDS Status Report: Update on Epidemiology (Board of Trustees)
6. AMA initiative on Adolescent Health: Progress Report (Board of Trustees)
7. Status of Controlled Clinical Trials for Use of Heroin in Terminally Ill Cancer Patients with Severe Chronic Pain (Board of Trustees)
8. The following reports from the Council on Scientific Affairs:

   Treatment of Infertility; Issues in Health Fraud: Colonic Irrigation; Corneal Transplantation; Evaluation of Routine Infant Circumcision; Aversion Therapy; Commercial Hair Analysis; Acid Rain Update; Positron Emission Tomography: Instrumentation — Cyclotrons and Radiopharmaceuticals — Oncology — Heart — A New Approach to Brain Chemistry.

9. Health IRAs (Board of Trustees)
10. Protecting Pension Plans Through Changes in Bankruptcy Law (Board of Trustees)
11. Report of the Special Task Force on Professional Liability and Insurance (Board of Trustees)
12. Issues relating to the Economic Representation of Physicians (Board of Trustees)
13. Statute of Limitations and Medical Liability (Board of Trustees)
14. Risk Management (Medical Services Council)
15. Report on Accreditation Process (Medical Education Council)
16. Implementation of Physician Manpower Policy (Board of Trustees)
17. National Computerized GME Service (Board of Trustees)
18. Guidelines for Election, Appointment, or Nomination to Medical Education Councils, Committees, and Specialty Boards (Medical Education Council)
19. The Displaced Resident (Medical Education Council)
20. Issues of Employee Drug Testing (Scientific Affairs Council)
21. AMA Women in Medicine Project-Progress Report (Board of Trustees)
22. Infractions of Human Rights by Fraudulent Health Practitioners (Board of Trustees)
23. Ambulatory Care Joint Ventures (Board of Trustees)
24. Credentials Files for Members of Hospital Medical Staffs (Board of Trustees)
25. Joint Commission on Accreditation of Hospitals (Board of Trustees)
26. AMA Initiatives in Health Delivery Systems (Board of Trustees)
27. Peer Review Organization Program Status (Medical Service Council)
28. PRO Legislation Repeal (Board of Trustees)
29. Qualifications and Accountability of PRO Physician Reviewers (Medical Service Council)
30. Quality of Medical Care Report (Medical Service Council)
31. Air Ambulances Report (Board of Trustees)
32. Home Health Care Report (Board of Trustees)
33. Trauma Center Designation (Board of Trustees)
34. On-Site Emergency Care (Board of Trustees)
35. PRO Sanctions (Board of Trustees)
36. AMA Initiative on Quality of Medical Care and Professional Self-Regulation (Board of Trustees)
37. Negotiation Regarding Quality of Care (Board of Trustees)
38. AMA Initiative on the Quality of Medical Care (Board of Trustees)
39. PRO Denials of Second Admissions (Medical Service Council)
40. Guidelines on Peer Review Activities — Status Report (Board of Trustees)
41. Unified Membership Progress Report (Board of Trustees)
42. Foreign Medical Graduate Involvement and Membership in AMA (Board of Trustees)
43. 1987 AMA Public Awareness Activities (Board of Trustees)
44. Expanding AMA Masterfile (Board of Trustees)
45. Report from Council on Long Range Planning and Development — Policy Review Process ■

MSMA offers retirement plan assistance

National Investors and University Life Annuity Holders who have questions about their annuity may receive important information from the MSMA Retirement Plan System. In the next few months, annuity holders will be able to make decisions regarding their annuity. Before that decision is made, options should be carefully considered and discussed. An MSMA Retirement Plan System representative would be glad to help you make the best choice for you.

Call collect at 314/725-9690. Ask for Michael Grimes, Director MSMA Retirement Plan System. ■

CME

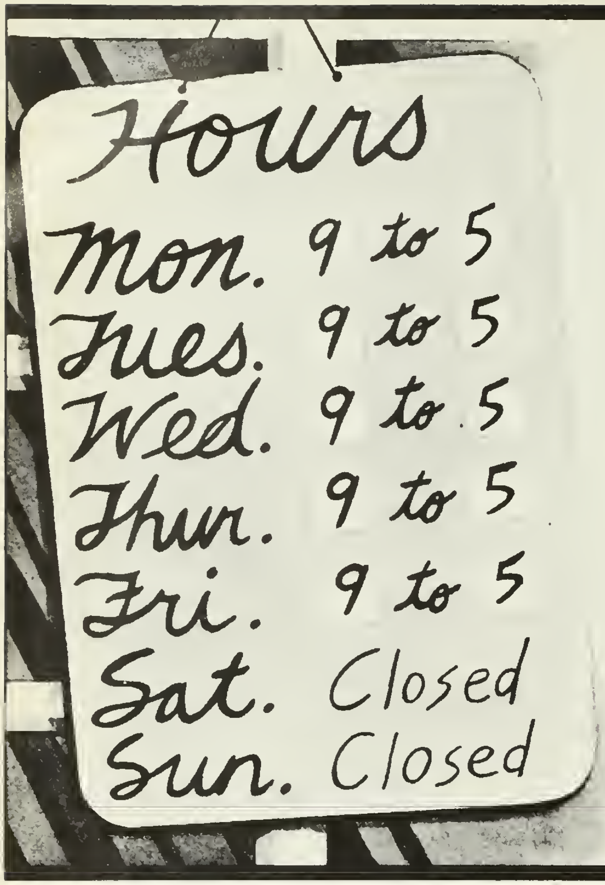
Several changes in the statutes governing the practice of medicine in Missouri were enacted by the last session of the General Assembly and will be taking effect on September 13, 1987. Here is a brief summary of some of the changes.

The State Board of Registration for the Healing Arts ("the Board") will for the first time be authorized to set minimum post-graduate training requirements for obtaining a permanent license to practice in this state. It will also be given authority to establish minimum requirements for continuing medical education ("CME"). The Board has the authority to waive CME requirements if a physician has retired from the active practice of medicine.

There are substantial changes in the grounds by which the Board may refuse to issue a license or initiate a disciplinary proceeding. These changes should give much needed guidance to practicing physicians, the Board, and the judges who will have to decide if a physician is subject to discipline. For example, one of the most significant of the changes relates to the standard of negligence. In the past, the standard has been "gross negligence." Some wanted that standard reduced to "ordinary" negligence such as that used in everyday malpractice litigation. A compromise was reached between those two such that under the new statute, a physician's license may not be subject to discipline for one "ordinary" negligent act. There must be repeated negligence, which is defined as the failure on more than one occasion, to use that degree of skill and learning ordinarily used under the same or similar circumstances by the members of the profession.

The Board has also been given new powers in regard to dealing with physicians subject to discipline. In the past, if the Board determined that discipline was appropriate, it was essentially limited to placing the physician on probation, suspending or revoking the license. Under the changes to become effective this fall, the Board may require the physician to submit to the care, counseling or treatment of a physician designated by the Board, or it may require the physician to attend continuing educational courses and pass examinations on the material. These sanctions cannot be ordered without a hearing.

Another important change deals with the right of the Board to gain access to the records of patients through the use of a subpoena. If a physician fails to honor the subpoena, the Board can seek a court order to enforce it. A physician will not be permitted to refuse to comply with the subpoena on the grounds that it would violate the physician-patient privilege. The law provides immunity from civil liability to the physician if a patient should sue for violating that privilege, and it also provides that the Attorney General is to defend the physician in such a lawsuit. ■



Accidents Don't Keep Regular Hours. Neither Should Your Personal Accident Insurance.

And when they do, they can be costly. That's why the MSMA sponsors an insurance plan for members . . . one that offers attractive coverage at a favorable price.

Accidents occur everywhere — on planes — on buses or other public conveyances — in cars — on the job — in the home — in sports activities.

All members under age 65 are eligible. Your spouse and children (to age 23) can be covered if you apply. Coverage is provided without regard to health history.

The plan is underwritten by Commercial Insurance Company, Newark, N.J.

A NEW, IMPROVED program is now available to you!

Coverage has been broadened and premiums reduced.

Up to $200,000 coverage available for members — Spouse and Children may also be insured.

For full particulars, the Administrators invite you to call or write today.

detach here and mail

Mail to: James
FRED.S.JAMES&CO.OFMISSOURI,INC.

Eastern Missouri Administrator
231 S. Bemiston
Clayton, MO 63105
(314) 863-7777

Western Missouri Administrator
2420 Pershing Road
Kansas City, MO 64108
(816) 842-6670

Please send me a brochure and application for the Missouri State Medical Association sponsored plan(s) I've checked below. I understand there is absolutely no obligation.

- ☐ Personal Disability Income
- ☐ Office Overhead Expense
- ☐ Hospital Indemnity Plan
- ☐ Accidental Death & Dismemberment Insurance

Name ____________________

Address ____________________

City ____________ State ____________ ZIP ____________

Phone: ( ) ____________ Best time to call: ____________

To show you how many hypertensives stayed on INDERAL® LA (PROPRANOLOL HCl) after a major nationwide trial...

...we had to find just the right room.

60,073 patients (90%) who started on INDERAL LA stayed on INDERAL LA.[1]*

Surprising? Not really.

Because most patients on INDERAL LA (propranolol HCl) don't even know it's working.

A recent double-blind, placebo-controlled, crossover study in 138 hypertensive patients[2] revealed that INDERAL LA has a side effects profile unsurpassed by atenolol or metoprolol — which shows how well-tolerated once-daily INDERAL LA can be.

Sole therapy or concomitant therapy? Fifty-nine percent of the time, INDERAL LA stood on its own.

The patients in the nationwide compliance trial were no different from yours. Generally when the antihypertensive regimen is complicated, compliance may become a problem. So, the effectiveness of INDERAL LA as once-daily monotherapy is a big plus. Of the remaining hypertensives in the program, 36% were treated merely with the addition of a diuretic to INDERAL LA.

For the noncompliant patients in your practice, INDERAL LA may well be the answer.

Almost 20,000 of the patients in the nationwide compliance trial were identified as having been noncompliant with their previous antihypertensive therapy. Their physicians reported that 88% showed improved compliance when placed on once-daily INDERAL LA.

Control, comfort, and compliance

ONCE-DAILY

INDERAL® LA

(PROPRANOLOL HCl) LONG ACTING CAPSULES

Like conventional INDERAL Tablets, INDERAL LA should not be used in the presence of congestive heart failure, sinus bradycardia, cardiogenic shock, heart block greater than first degree, and bronchial asthma

*After a 30-day trial with INDERAL LA, physicians reported that 90% of the patients would remain on INDERAL LA

The one you know best keeps looking better

NOW AVAILABLE...

NEW LOW DOSE

INDERAL LA 60 mg

(PROPRANOLOL HCl) LONG ACTING CAPSULES

Please see next page for brief summary of prescribing information

The one you know best keeps looking better

BRIEF SUMMARY *(FOR FULL PRESCRIBING INFORMATION, SEE PACKAGE CIRCULAR)*

INDERAL® LA brand of propranolol hydrochloride **(Long Acting Capsules)**

DESCRIPTION. INDERAL LA is formulated to provide a sustained release of propranolol hydrochloride INDERAL LA is available as 60 mg 80 mg 120 mg and 160 mg capsules

CLINICAL PHARMACOLOGY. INDERAL is a nonselective, beta-adrenergic receptor-blocking agent possessing no other autonomic nervous system activity It specifically competes with beta-adrenergic receptor-stimulating agents for available receptor sites When access to beta-receptor sites is blocked by INDERAL, the chronotropic, inotropic and vasodilator responses to beta-adrenergic stimulation are decreased proportionately

INDERAL LA Capsules (60 80, 120, and 160 mg) release propranolol HCl at a controlled and predictable rate Peak blood levels following dosing with INDERAL LA occur at about 6 hours and the apparent plasma half-life is about 10 hours When measured at steady state over a 24-hour period the areas under the propranolol plasma concentration-time curve (AUCs) for the capsules are approximately 60% to 65% of the AUCs for a comparable divided daily dose of INDERAL Tablets The lower AUCs for the capsules are due to greater hepatic metabolism of propranolol, resulting from the slower rate of absorption of propranolol Over a twenty-four (24) hour period blood levels are fairly constant for about twelve (12) hours then decline exponentially

INDERAL LA should not be considered a simple mg-for-mg substitute for conventional propranolol and the blood levels achieved do not match (are lower than) those of two to four times daily dosing with the same dose When changing to INDERAL LA from conventional propranolol a possible need for retitration upwards should be considered especially to maintain effectiveness at the end of the dosing interval In most clinical settings however such as hypertension or angina where there is little correlation between plasma levels and clinical effect INDERAL LA has been therapeutically equivalent to the same mg dose of conventional INDERAL as assessed by 24-hour effects on blood pressure and on 24-hour exercise responses of heart rate, systolic pressure and rate pressure product INDERAL LA can provide effective beta blockade for a 24-hour period

INDICATIONS AND USAGE. Hypertension: INDERAL LA is indicated in the management of hypertension it may be used alone or used in combination with other antihypertensive agents particularly a thiazide diuretic INDERAL LA is not indicated in the management of hypertensive emergencies

Angina Pectoris Due to Coronary Atherosclerosis: INDERAL LA is indicated for the long-term management of patients with angina pectoris

Migraine: INDERAL LA is indicated for the prophylaxis of common migraine headache The efficacy of propranolol in the treatment of a migraine attack that has started has not been established and propranolol is not indicated for such use

Hypertrophic Subaortic Stenosis: INDERAL LA is useful in the management of hypertrophic subaortic stenosis, especially for treatment of exertional or other stress-induced angina palpitations and syncope INDERAL LA also improves exercise performance The effectiveness of propranolol hydrochloride in this disease appears to be due to a reduction of the elevated outflow pressure gradient which is exacerbated by beta-receptor stimulation Clinical improvement may be temporary

CONTRAINDICATIONS. INDERAL is contraindicated in 1) cardiogenic shock 2) sinus bradycardia and greater than first-degree block, 3) bronchial asthma 4) congestive heart failure (see WARNINGS) unless the failure is secondary to a tachyarrhythmia treatable with INDERAL

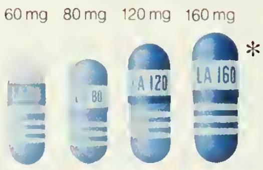
WARNINGS. CARDIAC FAILURE Sympathetic stimulation may be a vital component supporting circulatory function in patients with congestive heart failure, and its inhibition by beta blockade may precipitate more severe failure Although beta blockers should be avoided in overt congestive heart failure, if necessary, they can be used with close follow-up in patients with a history of failure who are well compensated and are receiving digitalis and diuretics Beta-adrenergic blocking agents do not abolish the inotropic action of digitalis on heart muscle

ONCE-DAILY

INDERAL® LA

(PROPRANOLOL HCl)

LONG ACTING CAPSULES



IN PATIENTS WITHOUT A HISTORY OF HEART FAILURE, continued use of beta blockers can, in some cases, lead to cardiac failure Therefore, at the first sign or symptom of heart failure, the patient should be digitalized and/or treated with diuretics, and the response observed closely, or INDERAL should be discontinued (gradually, if possible)

IN PATIENTS WITH ANGINA PECTORIS, there have been reports of exacerbation of angina and, in some cases, myocardial infarction, following *abrupt* discontinuance of INDERAL therapy Therefore when discontinuance of INDERAL is planned, the dosage should be gradually reduced over at least a few weeks, and the patient should be cautioned against interruption or cessation of therapy without the physician's advice If INDERAL therapy is interrupted and exacerbation of angina occurs, it usually is advisable to reinstitute INDERAL therapy and take other measures appropriate for the management of unstable angina pectoris Since coronary artery disease may be unrecognized, it may be prudent to follow the above advice in patients considered at risk of having occult atherosclerotic heart disease who are given propranolol for other indications

Nonallergic Bronchospasm (eg, chronic bronchitis, emphysema)—PATIENTS WITH BRONCHOSPASTIC DISEASES SHOULD IN GENERAL NOT RECEIVE BETA BLOCKERS. INDERAL should be administered with caution since it may block bronchodilation produced by endogenous and exogenous catecholamine stimulation of beta receptors

MAJOR SURGERY The necessity or desirability of withdrawal of beta-blocking therapy prior to major surgery is controversial It should be noted however, that the impaired ability of the heart to respond to reflex adrenergic stimuli may augment the risks of general anesthesia and surgical procedures

INDERAL (propranolol HCl), like other beta blockers, is a competitive inhibitor of beta-receptor agonists and its effects can be reversed by administration of such agents, eg, dobutamine or isoproterenol However, such patients may be subject to protracted severe hypotension Difficulty in starting and maintaining the heartbeat has also been reported with beta blockers.

DIABETES AND HYPOGLYCEMIA Beta blockers should be used with caution in diabetic patients if a beta-blocking agent is required Beta blockers may mask tachycardia occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be significantly affected Following insulin-induced hypoglycemia, propranolol may cause a delay in the recovery of blood glucose to normal levels

THYROTOXICOSIS Beta blockade may mask certain clinical signs of hyperthyroidism Therefore, abrupt withdrawal of propranolol may be followed by an exacerbation of symptoms of hyperthyroidism, including thyroid storm Propranolol may change thyroid function tests, increasing T_4 and reverse T_3, and decreasing T_3

IN PATIENTS WITH WOLFF-PARKINSON-WHITE SYNDROME, several cases have been reported in which, after propranolol, the tachycardia was replaced by a severe bradycardia requiring a demand pacemaker In one case, this resulted after an initial dose of 5 mg propranolol

PRECAUTIONS. GENERAL Propranolol should be used with caution in patients with impaired hepatic or renal function INDERAL (propranolol HCl) is not indicated for the treatment of hypertensive emergencies.

Beta-adrenoreceptor blockade can cause reduction of intraocular pressure Patients should be told that INDERAL may interfere with the glaucoma screening test Withdrawal may lead to a return of increased intraocular pressure

CLINICAL LABORATORY TESTS Elevated blood urea levels in patients with severe heart disease, elevated serum transaminase, alkaline phosphatase lactate dehydrogenase

DRUG INTERACTIONS Patients receiving catecholamine-depleting drugs such as reserpine should be closely observed if INDERAL is administered The added catecholamine-blocking action may produce an excessive reduction of resting sympathetic nervous activity which may result in hypotension, marked bradycardia vertigo, syncopal attacks, or orthostatic hypotension

Caution should be exercised when patients receiving a beta blocker are administered a calcium-channel-blocking drug, especially intravenous verapamil, for both agents may depress myocardial contractility or atrioventricular conduction On rare occasions, the concomitant intravenous use of a beta blocker and verapamil has resulted in serious adverse reactions, especially in patients with severe cardiomyopathy, congestive heart failure or recent myocardial infarction

Aluminum hydroxide gel greatly reduces intestinal absorption of propranolol

Ethanol slows the rate of absorption of propranolol

Phenytoin, phenobarbitone, and *rifampin* accelerate propranolol clearance

Chlorpromazine, when used concomitantly with propranolol, results in increased plasma levels of both drugs

Antipyrine and *lidocaine* have reduced clearance when used concomitantly with propranolol

Thyroxine may result in a lower than expected T_3 concentration when used concomitantly with propranolol

Cimetidine decreases the hepatic metabolism of propranolol, delaying elimination and increasing blood levels

Theophylline clearance is reduced when used concomitantly with propranolol

CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY Long-term studies in animals have been conducted to evaluate toxic effects and carcinogenic potential In 18-month studies in both rats and mice, employing doses up to 150 mg/kg/day, there was no evidence of significant drug-induced toxicity There were no drug-related tumorigenic effects at any of the dosage levels Reproductive studies in animals did not show any impairment of fertility that was attributable to the drug

PREGNANCY Pregnancy Category C INDERAL has been shown to be embryotoxic in animal studies at doses about 10 times greater than the maximum recommended human dose

There are no adequate and well-controlled studies in pregnant women INDERAL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

NURSING MOTHERS: INDERAL is excreted in human milk Caution should be exercised when INDERAL (propranolol HCl) is administered to a nursing woman

PEDIATRIC USE Safety and effectiveness in children have not been established

ADVERSE REACTIONS. Most adverse effects have been mild and transient and have rarely required the withdrawal of therapy

Cardiovascular Bradycardia, congestive heart failure; intensification of AV block, hypotension, paresthesia of hands, thrombocytopenic purpura, arterial insufficiency, usually of the Raynaud type

Central Nervous System Light-headedness, mental depression manifested by insomnia, lassitude, weakness, fatigue; reversible mental depression progressing to catatonia, visual disturbances, hallucinations, vivid dreams, an acute reversible syndrome characterized by disorientation for time and place, short-term memory loss, emotional lability, slightly clouded sensorium, and decreased performance on neuropsychometrics For immediate formulations, fatigue, lethargy and vivid dreams appear dose related

Gastrointestinal Nausea, vomiting, epigastric distress, abdominal cramping, diarrhea, constipation, mesenteric arterial thrombosis, ischemic colitis

Allergic Pharyngitis and agranulocytosis, erythematous rash, fever combined with aching and sore throat, laryngospasm and respiratory distress

Respiratory Bronchospasm

Hematologic Agranulocytosis, nonthrombocytopenic purpura, thrombocytopenic purpura

Auto-Immune In extremely rare instances, systemic lupus erythematosus has been reported

Miscellaneous Alopecia, LE-like reactions, psoriasiform rashes, dry eyes, male impotence, and Peyronie's disease have been reported rarely Oculomucocutaneous reactions involving the skin, serous membranes and conjunctivae reported for a beta blocker (practolol) have not been associated with propranolol

DOSAGE AND ADMINISTRATION. INDERAL LA provides propranolol hydrochloride in a sustained-release capsule for administration once daily. If patients are switched from INDERAL Tablets to INDERAL LA Capsules, care should be taken to assure that the desired therapeutic effect is maintained INDERAL LA should not be considered a simple mg-for-mg substitute for INDERAL INDERAL LA has different kinetics and produces lower blood levels Retitration may be necessary, especially to maintain effectiveness at the end of the 24-hour dosing interval

HYPERTENSION—*Dosage must be individualized* The usual initial dosage is 80 mg INDERAL LA once daily, whether used alone or added to a diuretic. The dosage may be increased to 120 mg once daily or higher until adequate blood-pressure control is achieved. The usual maintenance dosage is 120 to 160 mg once daily In some instances a dosage of 640 mg may be required The time needed for full hypertensive response to a given dosage is variable and may range from a few days to several weeks

ANGINA PECTORIS—*Dosage must be individualized* Starting with 80 mg INDERAL LA once daily, dosage should be gradually increased at three- to seven-day intervals until optimal response is obtained Although individual patients may respond at any dosage level, the average optimal dosage appears to be 160 mg once daily In angina pectoris, the value and safety of dosage exceeding 320 mg per day have not been established

If treatment is to be discontinued, reduce dosage gradually over a period of a few weeks (see WARNINGS).

MIGRAINE—*Dosage must be individualized* The initial oral dose is 80 mg INDERAL LA once daily The usual effective dose range is 160-240 mg once daily The dosage may be increased gradually to achieve optimal migraine prophylaxis If a satisfactory response is not obtained within four to six weeks after reaching the maximal dose, INDERAL LA therapy should be discontinued It may be advisable to withdraw the drug gradually over a period of several weeks

HYPERTROPHIC SUBAORTIC STENOSIS—80-160 mg INDERAL LA once daily

PEDIATRIC DOSAGE—At this time the data on the use of the drug in this age group are too limited to permit adequate directions for use

*The appearance of these capsules is a registered trademark of Ayerst Laboratories

REFERENCES:

1. INDERAL LA National Compliance Evaluation Program Data on file, Ayerst Laboratories
2. Ravid M, Lang R, Jutrin I The relative antihypertensive potency of propranolol, oxprenolol, atenolol, and metoprolol given once daily *Arch Intern Med* 1985; 145 1321-1323

1R7119/887

Ayerst

AYERST LABORATORIES
New York, NY 10017

© 1987 Ayerst Laboratories

CASH FLOW
HEADACHES?

TAKE TWO MINUTES
AND CALL US
IN THE MORNING.

At best, poor cash flow can be a real pain. At worst, it can cripple your practice. Now fortunately, there's a cure: the Medical Information Management System (MIMS).

It's IBM compatible, multi-user software designed with your needs in mind.

It can bill patients immediately, and file insurance claims electronically. This feature alone cuts payment time from months to as few as four days.

If you're suffering from cash flow headaches, take two minutes and call us toll-free. We'll send you our informative brochure and help you improve your financial health.

1-800-643-8365

MIMS
Medical Information Management Systems

D.O.C., Inc.
P.O. Box 2476
Little Rock, AR 72203

Your Directory

Most regular features of Missouri Medicine have been eliminated for this issue only as we have focused on information used daily by Missouri physicians. Reviewing the Contents page, you will see the following information included in this issue. We have listed a brief explanation of each section here:

MSMA Officers, AMA Delegates and Alternates, MSMA Councilors and Vice Councilors — This photo feature assists you in identifying the leaders and representatives of MSMA.

Code Numbers for Component Medical Societies — Every MSMA member is listed in two rosters in this issue: alphabetically and by component medical society. In the alphabetical listing, the number following the physician's name corresponds with the numerical heading where the second listing is found. For example, a physician practicing in Columbia would have the code 026 following his alphabetical listing to show that he is featured in the Boone County listing in the second roster section. This code number chart also shows the page number of each component medical society section.

Designated Specialty Codes — These abbreviations follow a physician's name to show the medical specialty.

Councilor Districts and Counties in Each District — The map shows the geographical divisions for each MSMA Councilor District. The names of the Councilors for those districts and the counties in their area are listed.

Guide to Component Medical Societies — An alphabetical list of Missouri communities and their corresponding component medical society.

MSMA Committees and Commissions — A complete listing of the members of each committee and commission for 1987-88.

Directory of Medical Specialty Organizations — A list of each state specialty organization, the president's name and address, and meeting information, if available.

Directory of Metropolitan Specialty Organizations — A list of each metropolitan specialty organization, the president's name and address, and meeting information, if available.

Insurance Plans Available to MSMA Members — Type of coverage, underwriter and administrator is listed for each plan.

Missouri Volunteer Health Agencies — These groups provide assistance in the form of free or specialized equipment, rehabilitation training, counseling, specialized care, or information. These are listed so that our members may refer their patients to these services.

Alphabetical Roster — All members are listed by their last name followed by the code number and the name of their component medical society.

Component Society Roster — Sectioned according to component medical society, the physician's name, address, telephone number and medical specialty code appear here. ■

1987-88 Missouri State Medical Association

THE PURPOSE of this Association is the promotion of the science and art of medicine, the protection of public health, the betterment of the medical profession, the organization of its membership for negotiation and collective bargaining purposes, and, by uniting with similar organizations in other states and territories of the United States, to form the American Medical Association.

T. J. Cooper
President-elect

Jordan W. Burkey
Editor

Donald G. Sessions
Associate Editor

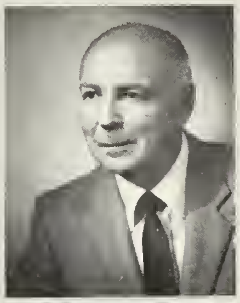
Larry G. Piepergerdes
President

MSMA OFFICERS

H. Peter Ekern
Immediate Past-President

William J. Medlicott
Vice-President

William C. Allen
Vice-President



John Roberts
Vice-President

Berry Ivy
Secretary

Jay Meyer
Treasurer

Arlen D. Winsky
Speaker

Jo-Ellyn M. Ryall
Vice-Speaker

AMA Delegates

Francis X. Lieb
St. Louis

Hugh E. Stephenson, Jr.
Columbia

George Bohigian
St. Louis

Melvin C. Kasten
Cape Girardeau

Larry G. Piepergerdes
Kansas City

Vernon Balster
St. Louis

Walter A. German
Springfield

AMA Alternate Delegates

Richard V. Bradley
St. Louis

Robert R. MacDonald, Jr.
St. Louis

Marvin A. Singleton
Joplin

H. Peter Ekern
Mexico

William J. Medlicott
Kansas City

Keith Ashcraft
Kansas City

Bradley Freilich
UMKC Student
(term to 12/31/87)

Carla Siegfried
UMKC Student
(term begins 1/1/88)

MSMA Councilors

Marvin A. Singleton, *Chairman*
Eighth District

Gary A. Dyer
Vice-Chairman
First District

Robert V. Tompson
Second District

William H. Huffaker
Third District

J. Otto Lottes
Third District

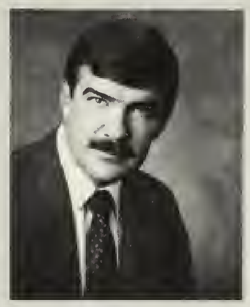
Arturo Montes
Third Distrist

Frederick D. Peterson
Third District

David Wilkinson
Third District

MSMA Councilors

Carol F. Williams
Third District

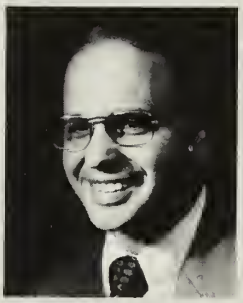

J. Michael Conoyer
Fourth District

Alan L. Braun
Fifth District

Kenneth L. Rall
Fifth District

A. J. Campbell
Sixth District

Raymond J. Caffrey
Seventh District


Robert T. Gibbons, Jr.
Seventh District

Frederick W. Hahn
Seventh District

Dorothy D. Reister
Seventh District

Francis M. Corry
Eighth District

David O. Barbe
Ninth District

Melvin C. Kasten
Tenth District

Dean Blakeley
Student Councilor

Charles W. Barbee
HMSS Councilor

Gerry A. Love
RPS Councilor

MSMA Vice Councilors

Stephen Vilmer
First District

Carl R. Kruse
Second District

Frank Ostapowicz
Third District

Sam L. Farrell
Fourth District

Jerry Murrell
Fifth District

Jerry Meyer
Sixth District

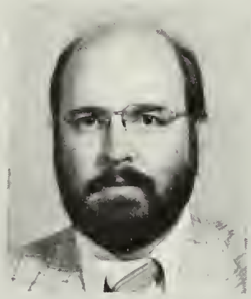
Mark W. Martin
Seventh District

David W. Hall
Eighth District

Thomas R. Stubbs
Ninth District

William C. Shell
Tenth District

Evan K. Saunders
Student
Vice Councilor



William H. Dorzab
HMSS Vice Councilor

Victoria Martin
RPS Vice Councilor

New **HemaWipe**® System
Designed to solve
the compliance problem

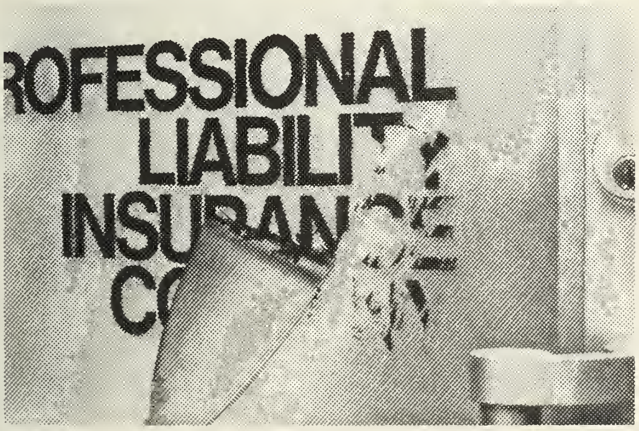
Just wipe, peel and seal.

Introducing the first "civilized" test
for fecal occult blood.

For more information call

The GOETZE-NIEMER CO.
1701 Brooklyn, K.C., MO. 816-231-1900
1-800-892-7337 (MO) 1-800-492-7337 (KS)

In ten years your malpractice carrier may be just a memory.



Unless it's Medical Protective.
The most important thing an insurance company sells is its promise to be here when you need help. Unfortunately, that's a promise that's easy to make, but hard to keep.

When you consider liability insurance, remember this. A company that's survived tough times before is more likely to come through a crisis period. And no company has weathered more of the industry's tough times than The Medical Protective Company because we pioneered professional liability coverage nearly a century ago.

For more information contact your Medical Protective Company general agent. He'll be here when you need him.

THE
MEDICAL PROTECTIVE COMPANY
FORT WAYNE, INDIANA

Ralph E. Borgmann, Philip E. Moppert
Suite 120, 13100 Manchester Road, St. Louis, MO 63131, (314) 965-7400

Robert E. McCurdy, Thomas E. Meierant
Suite 290, 7500 West 95th Street, P.O. Box 12128, Overland Park, KS 66212, (913) 381-4222

Could you use some help with your claims paperwork?

Put SUPERMIKE to work for you and join over 600 physicians already submitting Medicare Part B and Missouri Medicaid claims via electronic claim transmission.

SUPERMIKE is a software package that will reduce your claims paperwork and processing delays because it lets you know when a claim is incomplete before you send it.

With SUPERMIKE, all your claims go the same way, the same day, to the same place. General American/Medicare's Electronic Media Claims (EMC) Department will process your Medicare claims and forward your Medicaid claims to the state on a magnetic tape.

Technology was never so affordable—SUPERMIKE is only $49.95!

For more information, detach and mail this coupon:

Medicare Part B / General American

Linda Benso
Medicare/EMC, FO-1
General American Life Insurance Company
P.O. Box 505
St. Louis, MO 63166

MM8

Please send me your free brochure on SUPERMIKE, the automated claim transmission service for Missouri Medicare Part B and Medicaid.

Name of Physician: ____________________

Address: ____________________

City: __________ State: __________ Zip: __________

Specialty: __________ Phone: __________

Person to Contact: __________ Best Time: __________

Code Numbers

for Component Medical Societies

Code	*Society*	*Page*
010	Andrew	476
014	Audrain	476
018	Barton	476
026	Boone	476
030	Buchanan	476
034	Butler-Wayne-Ripley-Carter	481
038	Callaway	483
042	Cape Girardeau	484
046	Chariton-Macon-Monroe-Randolph	485
050	Clay-Platte	486
054	Clinton	487
058	Cole	488
062	Cooper	489
066	Dallas-Hickory-Polk-Dade	489
070	Dunklin	489
074	Franklin-Gasconade-Warren	489
078	Grand River (Caldwell-Carroll-Livingston-Grundy-Daviess-Harrison-Linn-Mercer-DeKalb)	490
082	Greene	490
086	Henry	495
094	Howard	496
098	Metro Med-Greater Kansas City	496
102	Jasper	513
106	Jefferson	514
110	Johnson	515
115	Laclede	515
118	Lafayette-Ray	515
120	Lake of the Ozarks (Camden-Miller-Morgan)	516
135	Mid-Missouri (Phelps-Crawford-Dent-Pulaski-Maries)	516
138	Mineral area (St. Francois-Iron-Madison-Washington-Reynolds-Bollinger)	554
142	Moniteau	517
146	Montgomery	517
150	Northeast (Clark-Lewis-Marion-Ralls-Scotland-Shelby)	517
158	Northwest (Nodaway-Holt-Atchison-Gentry-Worth)	517
162	North Central (Adair-Schuyler-Knox-Sullivan-Putnam)	556
518	Ozarks (Barry-Lawrence-Christian-Newton-McDonald)	518
170	Pemiscot	518
174	Perry-Ste. Genevieve	519
178	Pettis	519
186	Pike	519
189	St. Charles-Lincoln	519
190	St. Louis Metropolitan	521
198	Saline	548
202	SEMO (Stoddard-New Madrid-Mississippi-Scott)	549
206	South Central (Howell-Oregon-Texas-Wright-Douglas-Ozark)	549
208	Tri-Lakes (Stone-Taney)	550
210	Webster	550
214	West Central (Bates-Cass-Cedar-St. Clair-Vernon)	550
216	St. Louis University	550
218	University of Missouri-Columbia	551
220	University of Missouri-Kansas City	551
222	Washington University	552

The Shealy Institute

A PRACTICAL SOLUTION TO ONE OF YOUR MOST FRUSTRATING PATIENT PROBLEMS

The Logical Extension of Your Professional Services —

- Our Institute pioneered the comprehensive "Pain Rehabilitation" concept.
- We introduced the pain control techniques most often used in rehabilitating chronic pain patients — facet rhizotomy, TENS, PENS, Biogenics®, and neurochemical profiling.
- We continue to be the recognized leader in the field. Our success is measured by your patient's ability to return to work, withdraw from drugs, and control pain intensity.
- Since we specialize in pain management, your patient returns to you after treatment. We are available as consultants at any time. We are the only *accredited* pain management clinic in the four state area. Our services are covered by most insurance companies and worker's comp programs.

CARF
A Nationally Accredited Rehabilitation Facility

Send for a free copy of
the Shealy Pain Report.
The Shealy Institute
3525 S. National
Springfield, MO 65807
417-882-0850
1-800-492-4171, Ext. 35

my•o•pia

\mī-ˈō-pē-ə\: deficiency of foresight

SYMPTOMS: Most often observed in professionals who are inundated with day-to-day responsibilities. Dedicated to the needs of others, subject becomes focused on today… at the expense of tomorrow's full potential. May have complicated, expensive retirement plan with scattered investments and sometimes unfocused or nonexistent financial objectives. The lack of sufficient time and professional guidance may result in feelings of anxiety over future well-being of self, family and staff.

DIAGNOSIS: Financial myopia (common to this overworked peer group).

COMPLICATIONS: May not know where to turn for advice that is professional, comprehensive, personalized, flexible, diverse and *painless*.

R_x: As a member of the Missouri State Medical Association, you are eligible for treatment by highly qualified retirement planning specialists—no charge for initial consultation or subsequent quarterly or semi-annual checkups. For security and peace of mind tomorrow (and possibly lower costs), call today for Michael Grimes - Director or Thomas Knapko - Associate Director at E.F. Hutton. Call collect 314-725-9690.

CONTRAINDICATIONS: None.

MISSOURI STATE MEDICAL ASSOCIATION
A membership benefit offered in conjunction
with Trust Consultants, Inc., and E.F. Hutton.

Designated Specialty Codes

The following specialties are recognized by the American Medical Association.

A	Allergy
ABS	Abdominal Surgery
ADL	Adolescent Medicine
AI	Allergy and Immunology
AM	Aerospace Medicine
AN	Anesthesiology
BE	Broncho-Esophagology
BLB	Bloodbanking
CD	Cardiovascular Diseases
CDS	Cardiovascular Surgery
CHN	Child Neurology
CHP	Child Psychiatry
CLP	Clinical Pathology
CRS	Colon and Rectal Surgery
D	Dermatology
DIA	Diabetes
DMP	Dermatopathology
DR	Diagnostic Radiology
EM	Emergency Medicine
END	Endocrinology
FOP	Forensic Pathology
FP	Family Practice
GE	Gastroenterology
GER	Geriatrics
GP	General Practice
GPM	General Preventive Medicine
GS	General Surgery
GYN	Gynecology
HEM	Hematology
HNS	Head and Neck Surgery
HS	Hand Surgery
HYP	Hypnosis
ID	Infectious Diseases
IG	Immunology
IM	Internal Medicine
LAR	Laryngology
LM	Legal Medicine
MFS	Maxillofacial Surgery
N	Neurology
NA	Neuropathology
ND	Neoplastic Diseases
NEP	Nephrology
NM	Nuclear Medicine
NPM	Neonatal-Perinatal Medicine
NR	Nuclear Radiology
NS	Neurological Surgery
NTR	Nutrition
OBG	Obstetrics and Gynecology
OBS	Obstetrics
OM	Occupational Medicine
ON	Oncology
OPH	Ophthalmology
ORS	Orthopedic Surgery
OS	Other, i.e., physician designated a specialty other than appearing here.
OT	Otology
OTO	Otorhinolaryngology
P	Psychiatry
PA	Clinical Pharmacology
PD	Pediatrics
PDA	Pediatric Allergy
PDC	Pediatric Cardiology
PDE	Pediatric Endocrinology
PDR	Pediatric Radiology
PDS	Pediatric Surgery
PH	Public Health
PHO	Pediatric Hematology-Oncology
PM	Physical Medicine and Rehabilitation
PNP	Pediatric Nephrology
PS	Plastic Surgery
PSF	Facial Plastic Surgery
PTH	Pathology
PUD	Pulmonary Diseases
PYA	Psychoanalysis
PYM	Psychosomatic Medicine
R	Radiology
RHI	Rhinology
RHU	Rheumatology
RIP	Radioisotopic Radiology
TR	Therapeutic Radiology
TRS	Traumatic Surgery
TS	Thoracic Surgery
U	Urological Surgery

Note: No code will appear for those physicians who have not designated a specialty.

Letters to the Editor

What do you think?

Write: "Letters to the Editor"
Missouri Medicine
P.O. Box 1028
Jefferson City, Mo. 65101

Where you refer your rehab patient can make a lifetime of difference

Your primary concern is rehabilitating the victim of serious injury or physical impairment to the maximum degree possible.

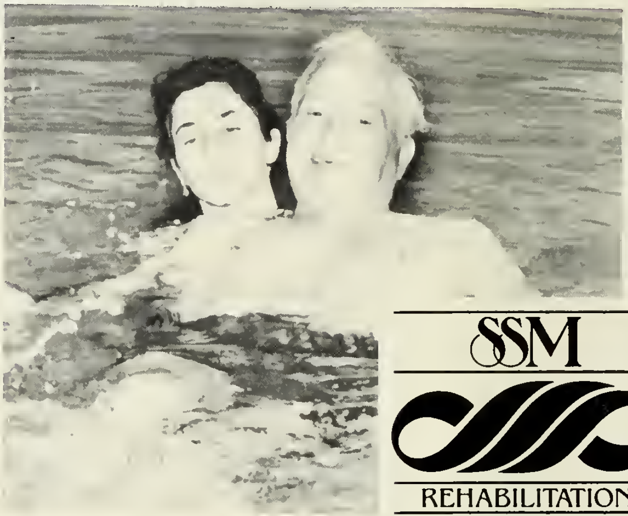
This is our *only* concern.

At SSM Rehab, we provide comprehensive medical rehabilitation services to recovering adults and adolescents, including several programs not available elsewhere in this region.

Our rehabilitation professionals design a specific program for each patient you refer, in close consultation with you. We then carry out this program with one thought in mind: to realize this human being's fullest potential for recovery, as soon as possible.

Call **314/862-9162** or write now for complete information about our services. Know in advance what we can do at SSM Rehab…

Where the potential of tomorrow is realized today



SSM
REHABILITATION
INSTITUTE

St. Joseph Health Center/St. Charles, MO 63301 • St. Mary's Health Center/St. Louis, MO 63117

An Equal Opportunity/Affirmative Action Employer • Services provided on a non-discriminatory basis
A MEMBER OF THE SSM HEALTH CARE SYSTEM

Cost Control

Everyone talks about cost control these days. Here's a brochure that lets your patients know *they* can have a hand in keeping health care costs down.

"You and Your Physician" has been a best-seller for several years. It's the perfect size for a waiting room table or book rack, or as an enclosure with patient bills.

Cost: 10¢ each, or write for a free sample copy.

MSMA Communications
P.O. Box 1028
Jefferson City, MO 65102

Make checks payable to the Missouri State Medical Association.

You and your physician —
Partners in reducing health care costs

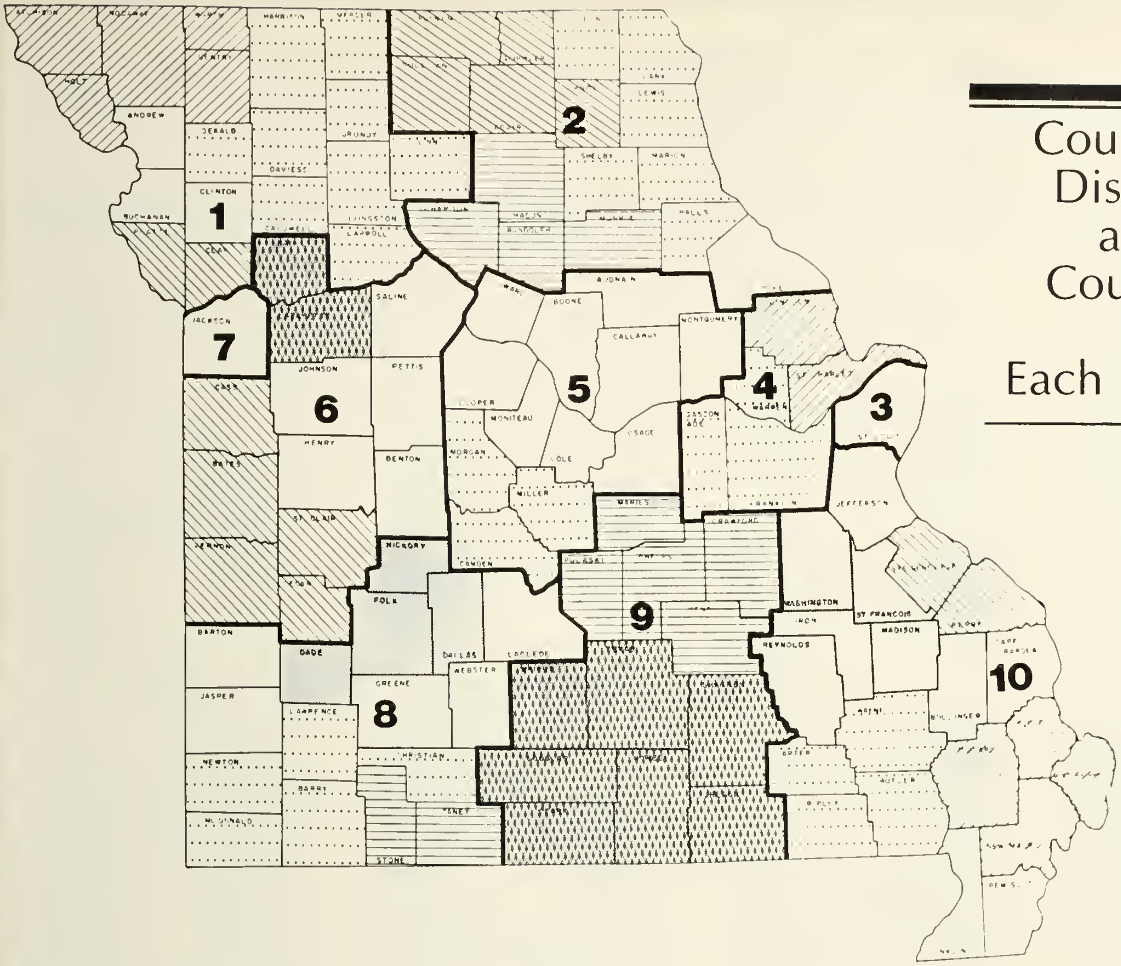
THE NAVAL RESERVE NEEDS YOU!

The Naval Reserve is actively seeking Physicians due to the expanded requirements of the military Fleet Hospital Program. All medical specialities are needed, particularly Surgeons and Anesthesiologists.

Alter your Practice routine by serving your country as a Naval Officer.

We offer:
- Flexibility in drill schedule
- 4 days' pay for 2 days' work
- Educational loan repayment program
- Continuing Medical Education (CME)
- The opportunity to travel and do something special

Contact: (913) 764-3664



Councilor Districts and Counties in Each District

DISTRICT	COUNCILOR	COUNTIES
FIRST	**Gary A. Dyer, M.D.,** *St. Joseph*	Andrew, Atchison, Buchanan, Caldwell, Carroll, Clay, Clinton, Daviess, DeKalb, Gentry, Grundy, Harrison, Holt, Linn, Livingston, Mercer, Nodaway, Platte and Worth
SECOND	**Robert V. Tompson, M.D.,** *Moberly*	Adair, Chariton, Clark, Knox, Lewis, Macon, Marion, Monroe, Pike, Putnam, Ralls, Randolph, Schuyler, Scotland, Shelby and Sullivan
THIRD	**William H. Huffaker, M.D.,** *St. Louis* **Carol F. Williams, M.D.,** *St. Louis* **David Wilkinson, M.D.,** *St. Louis* **J. Otto Lottes, M.D.,** *St. Louis* **Frederick D. Peterson, M.D.,** *St. Louis* **Arturo Montes, M.D.,** *Florissant*	St. Louis County and City
FOURTH	**J. Michael Conoyer, M.D.,** *St. Peters*	Franklin, Gasconade, Lincoln, St. Charles and Warren
FIFTH	**Kenneth L. Rall, M.D.,** *Columbia* **Alan L. Braun, M.D.,** *Jefferson City*	Audrain, Boone, Callaway, Camden, Cole, Cooper, Howard, Miller, Moniteau, Montgomery, Morgan and Osage*
SIXTH	**A. J. Campbell, M.D.,** *Sedalia*	Bates, Benton,* Cass, Cedar, Henry, Johnson, Lafayette, Pettis, Ray, St. Clair, Saline and Vernon
SEVENTH	**Dorothy D. Reister, M.D.,** *Kansas City* **Frederick W. Hahn, M.D.,** *Kansas City* **Raymond J. Caffrey, M.D.,** *Kansas City* **Robert T. Gibbons, Jr., M.D.,** *Kansas City*	Jackson
EIGHTH	**Francis M. Corry, M.D.,** *Springfield* **Marvin A. Singleton, M.D.,** *Joplin*	Barry, Barton, Christian, Dade, Dallas, Greene, Hickory, Jasper, Lawrence, Laclede, McDonald, Newton, Polk, Stone, Taney and Webster
NINTH	**David O. Barbe, M.D.,** *Mountain Grove*	Crawford, Dent, Douglas, Howell, Maries, Oregon, Ozark, Phelps, Pulaski, Shannon,* Texas and Wright
TENTH	**Melvin C. Kasten, M.D.,** *Poplar Bluff*	Bollinger, Butler, Cape Girardeau, Carter, Dunklin, Iron, Jefferson, Madison, Mississippi, New Madrid, Pemiscot, Perry, Reynolds, Ripley, St. Francois, Ste. Genevieve, Scott, Stoddard, Washington and Wayne

---

* Counties with no medical organization.

Guide to Component Medical Societies

Following is a list of Missouri communities in which MSMA member-physicians are in active practice or reside. Name of the community is followed by the county in which it is located and the medical society to which physicians of that community normally would belong.

A

Town	*County*	*Medical Society*
Advance	Stoddard	SEMO
Affton	St. Louis	St. Louis Metropolitan
Albany	Gentry	Northwest Missouri
Altenburg	Perry	Perry-Ste. Genevieve
Appleton City	St. Clair	West Central
Arnold	Jefferson	Jefferson
Arrow Rock	Saline	Saline
Ashland	Boone	Boone
Augusta	St. Charles	St. Charles-Lincoln
Aurora	Lawrence	Ozarks
Ava	Douglas	South Central

B

Town	*County*	*Medical Society*
Ballwin	St. Louis	St. Louis Metropolitan
Bethany	Harrison	Grand River
Blue Springs	Jackson	Jackson
Bolivar	Polk	Dallas-Hickory-Polk-Dade
Bonne Terre	St. Francois	Mineral Area
Boonville	Cooper	Cooper
Branson	Taney	Tri-Lakes
Brentwood	St. Louis	St. Louis Metropolitan
Bridgeton	St. Louis	St. Louis Metropolitan
Brookfield	Linn	Grand River
Brunswick	Chariton	Chariton-Macon-Monroe-Randolph
Buffalo	Dallas	Dallas-Hickory-Polk-Dade
Butler	Bates	West Central

C

Town	*County*	*Medical Society*
Cabool	Texas	South Central
Cainsville	Harrison	Grand River
California	Moniteau	Moniteau
Camdenton	Camden	Lake of the Ozarks
Cape Girardeau	Cape Girardeau	Cape Girardeau
Cardwell	Dunklin	Dunklin
Carrollton	Carroll	Grand River
Carthage	Jasper	Jasper
Caruthersville	Pemiscot	Pemiscot
Cassville	Barry	Ozarks
Centralia	Boone	Boone
Charlack	St. Louis	St. Louis Metropolitan
Charleston	Mississippi	SEMO
Chesterfield	St. Louis	St. Louis Metropolitan
Chillicothe	Livingston	Grand River
Clayton	St. Louis	St. Louis Metropolitan
Climax Springs	Camden	Lake of the Ozarks
Clinton	Henry	Henry
Columbia	Boone	Boone
Concordia	Lafayette	Lafayette-Ray
Crestwood	St. Louis	St. Louis Metropolitan
Creve Coeur	St. Louis	St. Louis Metropolitan
Crystal City	Jefferson	Jefferson
Cuba	Crawford	Mid-Missouri

D

Town	*County*	*Medical Society*
Deepwater	Henry	Henry
Desloge	St. Francois	Mineral Area
DeSoto	Jefferson	Jefferson
Dexter	Stoddard	SEMO
Doniphan	Ripley	Butler-Wayne-Ripley-Carter

E

Town	*County*	*Medical Society*
East Prairie	Mississippi	SEMO
Edina	Knox	North Central
Eldon	Miller	Lake of the Ozarks
El Dorado Springs	Cedar	West Central
Ellington	Reynolds	Mineral Area
Ellisville	St. Louis	St. Louis Metropolitan
Elsberry	Lincoln	St. Charles-Lincoln
Eureka	St. Louis	St. Louis Metropolitan
Excelsior Springs	Clay	Clay-Platte

F

Town	*County*	*Medical Society*
Fairdealing	Ripley	Butler-Wayne-Ripley-Carter
Fairfax	Atchison	Northwest Missouri
Farber	Audrain	Audrain
Farmington	St. Francois	Mineral Area
Fayette	Howard	Howard
Fenton	St. Louis	St. Louis Metropolitan
Ferguson	St. Louis	St. Louis Metropolitan
Festus	Jefferson	Jefferson
Flat River	St. Francois	Mineral Area
Florissant	St. Louis	St. Louis Metropolitan
Fordland	Webster	Webster
Forsyth	Taney	Tri-Lakes
Fort Leonard Wood	Pulaski	Mid-Missouri
Fredericktown	Madison	Mineral Area
Frontenac	St. Louis	St. Louis Metropolitan
Fulton	Callaway	Callaway

G

Town	*County*	*Medical Society*
Galena	Jackson	Jackson
Gallatin	Daviess	Grand River
Gladstone	Clay	Clay-Platte
Glasgow	Howard	Howard
Glendale	St. Louis	St. Louis Metropolitan
Grandview	Jackson	Jackson
Grant City	Worth	Northwest
Greenwood	Jackson	Jackson

H

Town	*County*	*Medical Society*
Hamilton	Caldwell	Grand River
Hannibal	Marion	Marion-Ralls-Shelby
Harrisburg	Boone	Boone
Harrisonville	Cass	West Central
Hartsburg	Boone	Boone
Hayti	Pemiscot	Pemiscot
Hazelwood	St. Louis	St. Louis Metropolitan
Herculaneum	Jefferson	Jefferson
Hermann	Gasconade	Franklin-Gasconade-Warren
Higginsville	Lafayette	Lafayette-Ray
High Ridge	St. Louis	St. Louis Metropolitan
Hillsboro	Jefferson	Jefferson
Holden	Johnson	Johnson
Holts Summit	Callaway	Callaway
Hornersville	Dunklin	Dunklin
House Springs	St. Louis	St. Louis Metropolitan
Houston	Texas	South Central
Huntsville	Randolph	Chariton-Macon-Monroe-Randolph

Town	*County*	*Medical Society*
I		
Independence	Jackson	Jackson
Ironton	Iron	Mineral Area
J		
Jackson	Cape Girardeau	Cape Girardeau
Jefferson City	Cole	Cole
Joplin	Jasper	Jasper
K		
Kansas City	Jackson	Jackson
Kennett	Dunklin	Dunklin
Kimberling City	Stone	Tri-Lakes
Kirksville	Adair	North Central
Kirkwood	St. Louis	St. Louis Metropolitan
Knob Noster	Johnson	Johnson
L		
LaGrange	Lewis	Northeast
Lamar	Barton	Barton
Lebanon	Laclede	Laclede
Lee's Summit	Jackson	Jackson
Lemay	St. Louis	St. Louis Metropolitan
Lexington	Lafayette	Lafayette-Ray
Liberty	Clay	Clay-Platte
Linn	Osage	Cole
Louisiana	Pike	Pike
Lutesville	Bollinger	Mineral Area
M		
Macon	Macon	Chariton-Macon-Monroe-Randolph
Malden	Dunklin	Dunklin
Manchester	St. Louis	St. Louis Metropolitan
Mansfield	Wright	South Central
Maplewood	St. Louis	St. Louis Metropolitan
Marceline	Linn	Grand River
Marionville	Lawrence	Ozarks
Marshall	Saline	Saline
Marshfield	Webster	Webster
Marthasville	Warren	Franklin-Gasconade-Warren
Maryland Heights	St. Louis	St. Louis Metropolitan
Maryville	Nodaway	Northwest Missouri
Mexico	Audrain	Audrain
Moberly	Randolph	Chariton-Macon-Monroe-Randolph
Monett	Barry	Ozarks
Monroe City	Monroe	Chariton-Macon-Monroe-Randolph
Mound City	Holt	Northwest Missouri
Mount Vernon	Lawrence	Ozarks
Mountain Grove	Wright	South Central
N		
Neosho	Newton	Ozarks
Nevada	Vernon	West Central
New Haven	Franklin	Franklin-Gasconade-Warren
New London	Ralls	Northeast
Nixa	Christian	Ozarks
Normandy	St. Louis	St. Louis Metropolitan
North Kansas City	Clay	Clay-Platte
O		
Oak Grove	Jackson	Jackson
Odessa	Lafayette	Lafayette-Ray
O'Fallon	St. Charles	St. Charles-Lincoln
Osage Beach	Camden	Lake of the Ozarks
Osceola	St. Clair	West Central
Overland	St. Louis	St. Louis Metropolitan
Owensville	Gasconade	Franklin-Gasconade-Warren
P		
Pacific	Franklin	Franklin-Gasconade-Warren
Palmyra	Marion	Northeast
Paris	Monroe	Chariton-Macon-Monroe-Randolph
Parkville	Platte	Clay-Platte
Perryville	Perry	Perry-Ste. Genevieve
Pierce City	Lawrence	Ozarks
Platte City	Platte	Clay-Platte
Plattsburg	Clinton	Clinton
Pleasant Hill	Cass	West Central
Poplar Bluff	Butler	Butler-Wayne-Ripley-Carter
Portageville	New Madrid	SEMO
Potosi	Washington	Mineral Area
Puxico	Stoddard	SEMO
R		
Raymore	Cass	West Central
Raytown	Jackson	Jackson
Reeds Spring	Stone	Tri-Lakes
Republic	Greene	Greene
Richland	Pulaski	Mid-Missouri
Richmond	Ray	Lafayette-Ray
Richmond Heights	St. Louis	St. Louis Metropolitan
Rocheport	Boone	Boone
Rock Port	Atchison	Northwest
Rogersville	Webster	Webster
Rolla	Phelps	Mid-Missouri
Rosendale	Andrew	Andrew
S		
St. Ann	St. Louis	St. Louis Metropolitan
St. Charles	St. Charles	St. Charles-Lincoln
St. Clair	Franklin	Franklin-Gasconade-Warren
Ste. Genevieve	Ste. Genevieve	Perry-Ste. Genevieve
St. Joseph	Buchanan	Buchanan
St. Louis	St. Louis	St. Louis Metropolitan
St. Peters	St. Charles	St. Charles-Lincoln
Salem	Dent	Mid-Missouri
Sarcoxie	Jasper	Jasper
Savannah	Andrew	Andrew
Sedalia	Pettis	Pettis
Shelbina	Shelby	Northeast
Shell Knob	Barry	Ozarks
Shrewsbury	St. Louis	St. Louis Metropolitan
Sikeston	Scott	SEMO
Slater	Saline	Saline
Smithton	Pettis	Pettis
Smithville	Clay	Clay-Platte
Springfield	Greene	Greene
Stanberry	Gentry	Northwest
Steelville	Crawford	Mid-Missouri
Strafford	Greene	Greene
Sullivan	Franklin	Franklin-Gasconade-Warren
Sweet Springs	Saline	Saline
T		
Tarkio	Atchison	Northwest
Thayer	Oregon	South Central
Town and Country	St. Louis	St. Louis
Trenton	Grundy	Grand River
Troy	Lincoln	St. Charles-Lincoln
U		
Union	Franklin	Franklin-Gasconade-Warren
University City	St. Louis	St. Louis Metropolitan
V		
Valley Park	St. Louis	St. Louis Metropolitan
Van Buren	Carter	Butler-Wayne-Ripley-Carter
Versailles	Morgan	Lake of the Ozarks
W		
Warrensburg	Johnson	Johnson
Warrenton	Warren	Franklin-Gasconade-Warren
Washington	Franklin	Franklin-Gasconade-Warren
Waverly	Lafayette	Lafayette-Ray
Waynesville	Pulaski	Mid-Missouri
Webb City	Jasper	Jasper
Webster Groves	St. Louis	St. Louis Metropolitan
Wellsville	Montgomery	Montgomery
Wentzville	St. Charles	St. Charles-Lincoln
Weston	Platte	Clay-Platte
West Plains	Howell	South Central
Williamsville	Wayne	Butler-Wayne-Ripley
Willow Springs	Howell	South Central
Winchester	St. Louis	St. Louis Metropolitan
Windsor	Henry	Henry
Winston	Daviess	Grand River

MSMA Committees and Commissions

Executive Committee

Larry G. Piepergerdes, M.D., *Chairman*	Kansas City
T. J. Cooper, M.D.	St. Louis
Berry Ivy, M.D.	Springfield
Jay Meyer, M.D.	St. Louis
Marvin A. Singleton, M.D.	Joplin
Gary A. Dyer, M.D.	St. Joseph

Judicial Council

Ronald A. Youmans, M.D., *Chairman*	Kansas City (1992)
Hugh E. Stephenson, M.D.	Columbia (1990)
E. T. Hansbrough, M.D.	Poplar Bluff (1991)
Richard V. Bradley, M.D.	St. Louis (1988)
Donald McIntosh, M.D.	Lee's Summit (1989)

Constitution and Bylaws Committee

James A. Murphy, M.D., *Chairman*	St. Joseph (1989)
Linda Fisher, M.D.	St. Louis (1988)
Douglas B. Bogart, M.D.	Kansas City (1988)
Vacancy	(1989)
Sivaprasad D. Madduri, M.D.	Poplar Bluff (1990)
Jagadishwar Devkota, M.D.	Columbia (1990)

Planning Committee

Robert R. MacDonald, Jr., M.D., *Chairman*	St. Louis (1990)
Sam L. Farrell, M.D.	Washington (1988)
Stephen C. McCray, M.D.	Gladstone (1988)
Mark C. Kasten, M.D.	Cape Girardeau (1989)
Otis Moseley, M.D.	Osage Beach (1989)
Douglas Paone, M.D.	Kansas City (1990)
Dan T. Sullivan, M.D.	Springfield (1991)
Bruce Preston, M.D.	West Plains (1991)
Carl R. Kruse, M.D.	Palmyra (1992)
Phillip M. Hornbostel, M.D.	Sedalia (1992)

Legislative Affairs Committee

John I. Matthews, M.D., *Chairman*	Jefferson City
Larry G. Piepergerdes, M.D.	Kansas City
T. J. Cooper, M.D.	St. Louis
Berry Ivy, M.D.	Springfield
Marvin A. Singleton, M.D.	Joplin
Gary A. Dyer, M.D.	St. Joseph
Alan S. Holtz, M.D.	St. Louis
William H. Marshall, M.D.	Jefferson City
Melvin C. Kasten, M.D.	Cape Girardeau
Jerry L. Meyer, M.D.	Concordia

Physician Rehabilitation Committee

John J. O'Hearne, M.D., *Chairman*	Kansas City
John P. Carmody, M.D.	St. Louis
James R. Criscione, Jr., M.D.	Kirkwood
Carl Pearman, M.D.	Columbia
Edward C. Felker, III, M.D.	Sikeston
James S. Carter, M.D.	Columbia
William I. Stryker, M.D.	St. Louis
C. E. "Gene" Ridenhour, M.D.	Columbia
Donald McIntosh, M.D.	Kansas City
John Mihalevich, M.D.	Springfield
Hugh C. Bartlett, M.D.	Rolla
Henry F. Domke, M.D.	Jefferson City
Carroll Patterson, M.D.	Liberty
C. Preston Chester, D.O.	Chesterfield
Jim Williams, D.O.	Independence
Ron Hubbard, D.O.	Independence
Mrs. Kris Shaw, *Auxiliary*	Hermann
Mrs. Patricia Molnar, *Auxiliary*	Chesterfield

Continuing Education and Health Manpower Commission

William D. Bradshaw, M.D., *Chairman*	Columbia (1988)
Orlyn O. Lockard, M.D.	St. Joseph (1988)
Olga M. Blair, M.D.	St. Louis (1988)
Victor G. Clever, M.D.	St. Charles (1988)
Hiremathada Jayanandaiah, M.D.	Hannibal (1988)
John Renner, M.D.	Kansas City (1989)
Robert B. Brigden, M.D.	Joplin (1989)
W. Wayne Boydston, M.D.	Odessa (1989)
Luis Anglo, M.D.	St. Louis (1989)
Edward Jenkins, M.D.	Waynesville (1989)
Turner L. Minnigerode, M.D.	Kansas City (1990)
Dwight L. Deardueff, M.D.	Rolla (1990)
George Trimble, M.D.	Kansas City (1990)
Michael R. Freeman, M.D.	Cape Girardeau (1990)
Raymond O. Frederick, M.D.	St. Louis (1990)

Medical Economics, Third Party Medicine and Governmental Relations Commission

Clarence C. Reynolds, M.D., *Chairman*	Kansas City (1990)
Richard L. Johnson, M.D.	Kansas City (1988)
George D. Flanigan, M.D.	St. Louis (1988)
John Davidson, M.D.	Chesterfield (1988)
Joseph Kahn, M.D.	Sikeston (1988)
Thomas R. Stubbs, M.D.	West Plains (1988)
Gerald Moritz, M.D.	St. Louis (1989)
T. J. Cooper, M.D.	Fulton (1989)
Jeff Schulman, M.D.	St. Louis (1989)
Gerald Hoxworth, M.D.	Mexico (1989)
Milamari A. Cunningham, M.D.	Columbia (1989)
Carl Strauss, M.D.	Kansas City (1990)
Martha Reed, M.D.	Hillsboro (1990)
F. David Muegge, M.D.	Springfield (1990)
Lewis C. Vollmar, Jr., M.D.	St. Louis (1990)

Interspecialty Medicine Commission

Michael L. Loren, M.D., *Allergy*	Independence
James O. Alyea, M.D., *Anesthesiology*	Columbia
Peter Muelleman, M.D., *Dermatology*	Independence
Timothy Turner, D.O., *Emergency Physicians*	Chesterfield
James Campbell,M.D., *Family Physicians*	Macon
Charles N. Mullican, M.D., *Internal Medicine*	St. Joseph
Paul E. Stohr, M.D., *Neurosurgery*	St. Louis
James Blythe, M.D., *OB/GYN*	St. Louis
John C. Hagan, M.D., *Ophthalmology*	N. Kansas City
Newton White, M.D., *Orthopaedics*	St. Louis
J. Regan Thomas, M.D., *Otolaryngology*	St. Louis
Pediatrics	Vacancy
Charles R. Kelly, M.D., *Physical Medicine & Rehabilitation*	Kansas City
Pathology	Vacancy
Richard Quick, M.D., *Psychiatry*	St. Louis
Radiology	Vacancy
Surgery	Vacancy
Thomas Beller, M.D., *Thoracic*	Kansas City
Urology	Vacancy

Publications Committee

Jordan W. Burkey, M.D., *Chairman*	Springfield
Donald G. Sessions, M.D.	St. Louis
Donald E. Menchetti, M.D.	Springfield
John K. Layle, M.D.	Kansas City
Jerry W. Templer, M.D.	Columbia
Earl R. Schultz, M.D.	St. Louis

Medical-Legal Affairs Commission

Richard H. Fallon, M.D., *Chairman*	St. Louis (1989)
William J. Medlicott, M.D.	Kansas City (1988)
David M. Reisler, M.D.	Chesterfield (1988)
Leonard L. Davis, Jr., M.D.	St. Louis (1988)
Ronald Benson, M.D.	Springfield (1988)
George L. Hawkins, M.D.	St. Louis (1988)
Natu Patel, M.D.	Bethany (1989)
Benjamin I. Albano, M.D.	Crystal City (1989)
Ralph Braunschweig, M.D.	Columbia (1989)
Garth S. Russell, M.D.	Columbia (1989)
Stephen Vilmer, M.D.	Shawnee Mission (1990)
William E. Stricker, M.D.	Rolla (1990)
Andrew B. Kaufman, M.D.	Kansas City (1990)
Thomas C. Sparkman, M.D.	Cape Girardeau (1990)
Curtis C. Cox, M.D.	Jefferson City (1990)

Public Affairs Commission

Barry J. Bass, M.D., *Chairman*	Rolla (1988)
Carl Myers, M.D.	Platte City (1988)
Fritz A. Byrum, M.D.	Ballwin (1988)
Jo-Ellyn M. Ryall, M.D.	St. Louis (1988)
William A. Turner, M.D.	Nevada (1988)
Edmond B. Cabbabe, M.D.	St. Louis (1989)
Herbert K. Dixon, M.D.	Joplin (1989)
Michael J. Bukstein, M.D.	Hannibal (1989)
Carlo P. Caciolo, M.D.	St. Louis (1989)
Marla J. Tobin, M.D.	Higginsville (1989)
R. Robert Hatelid, M.D.	Joplin (1990)
Lawrence A. Rues, M.D.	Kansas City (1990)
Robert J. Olson, M.D.	Springfield (1990)
Michaele M. Penkoske, M.D.	St. Charles (1990)
H. Jerry Murrell, M.D.	Columbia (1990)

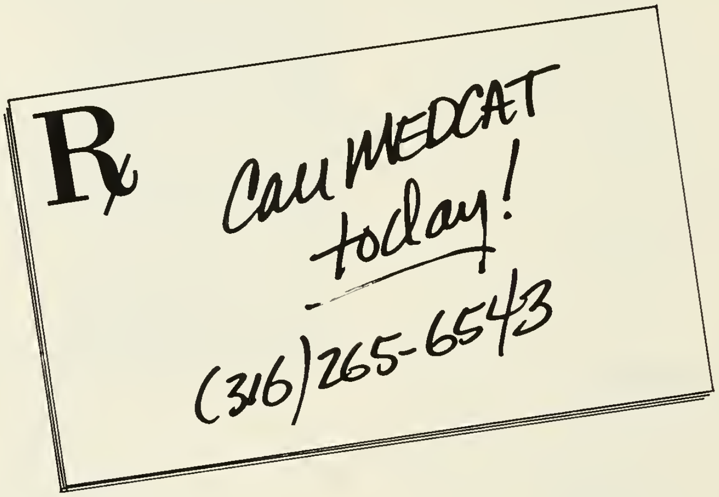
''Without your help I simply could not have made it through medical school.''

The Missouri State Medical Foundation — MSMF — was created by the Missouri State Medical Association for the express purpose of giving financial assistance to deserving young Missourians who will be tomorrow's doctors.

Send your check today to the Missouri State Medical Foundation, 113 Madison St., P.O. Box 1028, Jefferson City, MO 65101.

THE CHALLENGE:

provide top quality care efficiently...



Call MEDCAT today!

(316)265-6543

Computer Solutions for Medical Practices

- ABSOLUTE CONTROL Of Accounts Receivable,

  charges, payments, write-offs, and refunds — as proven by actual use in physicians' offices

- COMPLETE MANAGEMENT REPORTS

  that let you know your unit revenue and costs so you can fine tune the business side of your practice

- PAPERLESS CLAIMS,

  including electronic claims submission to BC/BS,* Medicare,* and N.E.I.C.™ for most commercial insurance companies nationwide; and automatic follow-up on unpaid insurance claims

- APPOINTMENT SCHEDULING

  on a single menu that allows you to display, schedule, cancel or reschedule individual appointments or whole series of appointments; to print out physicians' daily schedules; and to add, update and delete patients and referring physicians

- PLUS many other features.

* where available

MEDCAT CORPORATION

MEDICAL COMPUTER APPLICATIONS AND TECHNOLOGY

224 East Douglas / Wichita, Kansas 67202 / 316-265-6543

Directory of Medical Specialty Organizations

Any specialty group not listed here is invited to send the name of the group's president and the time, date and place of the group's next meeting to: Medical Specialty Listing, MISSOURI MEDICINE, P.O. Box 1028, Jefferson City, MO 65102.

** The 130th MSMA Annual Convention will be held March 17-20, 1988 at Hyatt Regency Hotel in Kansas City.*

Specialty	President	Next Meeting
Missouri State Allergy Association	Gerald S. Shatz, M.D. 224 S. Woods Mill Rd., #270 Chesterfield, MO 63017	*MSMA Annual Convention, Kansas City
Missouri Society of Anesthesiologists	Gerald F. Tuohy, M.D. 44th & Wornall Rd. Kansas City, MO 64111	*MSMA Annual Convention, Kansas City
Missouri Dermatological Society, Inc.	John C. Hall, M.D. 4400 Broadway, Ste. 505 Kansas City, MO 64111	*MSMA Annual Convention, Kansas City
Missouri Chapter American College of Emergency Physicians	Michael Weaver, M.D. St. Luke's Hospital 44th & Wornall Road Kansas City, MO 64111	August 4-7, 1987 Breckinridge, Osage Beach
Missouri Academy of Family Physicians	Monaford D. Durnell, M.D. Goppert Family Care Ctr. 6601 Rockhill Rd. Kansas City, MO 64131	June 1988
Missouri Society of Internal Medicine	Charles N. Mullican, M.D. 510 Francis St. St. Joseph, MO 64501	Sept. 25-27, 1987
Missouri State Neurosurgical Society	Paul E. Stohr, M.D. 1035 Bellevue Avenue St. Louis, MO 63117	*MSMA Annual Convention, Kansas City
Missouri OB/GYN Society ACOG	George J. Fuchs, M.D. 3401 Berrywood Dr. Suite 201 Columbia, MO 65201	Sept. 19, 1987 Columbia
Missouri Ophthalmological Society	Joseph Giangiacomo, M.D. EC-139 Mason Eye Institute Health Sciences Center Columbia, MO 65212	October 10, 1987
Missouri State Orthopaedic Association	George Luther, M.D. 533 Couch Ave., Ste. 220 St. Louis, MO 63122	Sept. 29-Oct. 2, 1987
Missouri Society of Otolaryngology	Edgar Ailor, M.D. Boone Clinic 401 Keene Columbia, MO 65201	*MSMA Annual Convention, Kansas City
Missouri Society of Pathologists	Robert W. Brangle, M.D. Deaconess Hospital 6150 Oakland Ave. St. Louis, MO 63100	*MSMA Annual Convention, Kansas City

Missouri Chapter, American Academy of Pediatrics	David L. Simon, M.D. 9705 Watson Rd. St. Louis, MO 63126	August 21-23, 1987 Lake of the Ozarks
Central Missouri Psychiatric Society	James M. Weiss, M.D. Mid-Missouri Mental Hlth. Ctr. #3 Hospital Drive Columbia, MO 65202	*MSMA Annual Convention, Kansas City
Central Society of Physical Medicine & Rehabilitation	Clifford Ameduri, M.D. 1235 E. Cherokee Springfield, MO 65804	*MSMA Annual Convention, Kansas City
Missouri Chapter of American College of Surgeons	Michael Bukstein, M.D. 711 Grand Avenue Hannibal, MO 63401	June 1988
Missouri State Surgical Society	J. Thomas Critchlow, M.D. 807 Medical Park Dr. Mexico, MO 65265-3729	*MSMA Annual Convention, Kansas City
Missouri Thoracic Society	Charles J. Brook, M.D. 6420 Prospect Suite T303 Kansas City, MO 64132	*MSMA Annual Convention, Kansas City
Missouri Society of Urologists	Jay L. Milne, M.D. 1900 S. National Suite 2700 Springfield, MO 65804	

Letters to the Editor

MSMA lobbying deserves praise

Dear Dr. Burkey:

The Legislative Report of June 18, 1987 summarizes a year of skillful marshalling of our limited resources to protect public health and the medical profession's integrity. Unfortunately, our membership has not been as active as it could have been. MSMA members received many legislative benefits due to a few faithful physicians who travelled to Jefferson City to participate in the lobbying process.

The largest factor in this year's program is the MSMA skilled lobbying staff of Cork Swarens and Gary Dey. We physicians in Missouri are lucky that some of the bills introduced at the first of the Session and damaging to medicine did not pass. If not for Cork, Gary, Royal Cooper, and the MSMA members who lobbied for all physicians, where would we be?

Sincerely,
Saul Boyarsky, M.D., J.D.
Professor of Urologic Surgery
Washington University School
of Medicine
St. Louis

Correction

Resolution 5, Model Legislation for Driving While Intoxicated, appeared incorrectly on page 357 of the July 1987 MISSOURI MEDICINE. Following is the correct information:

Resolved, that the MSMA prepare model legislation that would require physicians and hospitals to report the results of chemical analyses of blood, urine, saliva and breath to the proper authorities where driving under the influence of alcohol is suspected; and be it

Resolved, that proper legal immunity for physicians and hospitals be provided in the model legislation similar to that provided in the laws on child abuse and communicable diseases; and be it further

Resolved, that the model legislation include lowering of the standard of blood alcohol content to 0.05% as conclusive evidence of drunk driving.

House action: The above amended resolution was adopted.

Metropolitan Specialty Organizations

Listed here are medical specialty groups located in Missouri's metropolitan areas. The listings are organized by city with the name of the current president or contact person, their address and phone number plus the organization's meeting schedule, if available at press time. Please note that any organization not listed below may submit their standard information for publication to: Metropolitan Specialty Organizations, MISSOURI MEDICINE, P.O. Box 1028, Jefferson City, MO 65102.

Columbia

Mid-Missouri Pathology Society
Ann Havey, M.D., *contact person*
Health Sciences Center
Columbia, MO 65212
314/882-8154
Next meeting in September 1987

Jefferson City

Central Missouri Psychiatric Society
Lori DeRosear, D.O., *president*
University of Missouri School of Medicine
Department of Psychiatry
#3 Hospital Dr.
Columbia, MO 65201
314/882-3176 x 300
Next meeting, August 5, 1987

Kansas City

Greater Kansas City Allergy Association
Scott Frankel, M.D., *president*
4601 West 109th St.
Shawnee Mission, KS 66211
Meetings are quarterly

Kansas City Society of Anesthesiologists
Joy Bliss, M.D., *president*
42 Holly Dr.
Olathe, Kansas 66062
Meetings are quarterly

Kansas City Dermatologic Society
Lee R. Bittenbender, M.D., *president*
930 Iowa Street
Lawrence, Kansas 66044
Meetings are monthly on third Thursday, except April, July & December

Kansas City Academy of Family Physicians
Mark Martin, M.D., *president*
225 S. Douglas
Lee's Summit, MO 64063
Meetings are quarterly

Kansas City Gynecological Society
Elwyn M. Grimes, M.D., *president*
3101 Broadway
Kansas City, MO 64111
Meetings are five times a year, usually on third Thursday, January, March, May, September, and November

Greater Kansas City Society of Internists
Joseph L. Kyner, M.D., *president*
Kansas University Medical Center
39th and Rainbow Blvd.
Kansas City, KS 66103
Meetings are quarterly

Great Plains Occupational Medical Association
Eugene S. Welter, M.D., *president*
9001 State Line Rd.
Kansas City, MO 64114
Meeting dates to be announced

Kansas City Orthopedic Society
Thomas Schmidt, M.D., *president*
Children's Mercy Hospital
24th & Gillham Rd.
Kansas City, MO 64108
Meetings are twice yearly

Kansas City Society of Ophthalmology & Otolaryngology
Larry W. Piebenga, M.D., *president*
4400 Broadway
Kansas City, MO 64111
Meetings are quarterly

Kansas City Society of Pathologists
Michael R. Caughron, M.D., *president*
Research Medical Center
2316 East Meyer Blvd.
Kansas City, MO 64132
Meetings are monthly on the first Wednesday

Kansas City Southwest Pediatric Society
Jerome Grunt, M.D., *president*
Children's Hospital
24th and Gillham Road
Kansas City, MO 64108
Meetings are monthly on fourth Wednesday except June

Greater Kansas City Radiological Society
Sol Bapnipsky, M.D., *president*
4320 Wornall Road
Kansas City, MO 64111
Meetings are monthly

Kansas City Surgical Society
Keith W. Ashcraft, M.D., *president*
4400 Broadway
Kansas City, MO 64111
Meetings are the third Wednesday of November, January, March and May

Kansas City Urological Society
H. Calvin Lentz, M.D., *president*
1515 W. Truman Road
Suite 404
Independence, MO 64050
Meeting dates to be announced

Western Missouri Psychiatric Society
Donald C. Sanders, M.D., *president*
6400 Prospect
Kansas City, MO 64132
Meetings are quarterly

St. Louis

St. Louis Society of Anesthesiologists
Stephen Bell, M.D., *president*
Christian Hospital
1113 Dunn Rd.
St. Louis, MO 63136
314/355-2300 x 5427
Next meeting, September 15, 1987

St. Louis Cardiac Club
George Williams, M.D., *president*
3660 Vista
St. Louis, MO 63110
314/577-6190
Next meeting, October 8, 1987

St. Louis Society of Colon and Rectal Surgery
Francis Burns, M.D., *president*
1035 Bellevue Ave.
St. Louis, MO 63117
314/781-6219
Meeting dates to be announced

St. Louis Dermatological Society
Dolores Tucker, M.D., *president*
224 S. Woods Mill Rd.
Suite 570 South
Chesterfield, MO 63107
314/878-2556
Meeting dates to be announced

The St. Louis Ear, Nose and Throat Club
William Freidman, M.D., *president*
Deaconess Medical Office Center
6125 Clayton Avenue
St. Louis, MO 63139
314/768-3222
Next meeting, November 1987

St. Louis Academy of Family Physicians
L. Joseph Kennington, M.D., *president*
14382 Woodlake Dr.
Chesterfield, MO 63017
314/434-3333
Meeting dates to be announced

St. Louis Gastrointestinal Edoscopy Society
Burton A. Shatz, M.D., *president*
10287 Clayton Rd.
St. Louis, MO 63125
314/997-3212
Meeting dates to be announced

St. Louis Gynecological Society
Robert Blaskiewicz, M.D., *president*
2821 N. Ballas Road
St. Louis, MO 63131
314/872-7400
Next meeting, October 15, 1987

St. Louis Society of Internal Medicine
William A. Peck, M.D., *president*
216 S. Kingshighway
St. Louis, MO 63110
314/454-7105
Meeting dates to be announced

St. Louis Internists' Club
William G. Bowen, M.D., *president*
4652 Maryland Ave.
St. Louis, MO 63108
314/367-3113
Meeting dates to be announced

St. Louis Society of Medical Oncology
Burton M. Needles, M.D., *president*
12255 DePaul Dr.
Bridgeton, MO 63044
314/291-8302
Meeting dates to be announced

St. Louis Society of Neurological Sciences
James Ferrendelli, M.D., *president*
517 S. Euclid Ave.
St. Louis, MO 63110
314/362-7815
Meeting dates to be announced

St. Louis Ophthalmological Society
Michael J. Isserman, M.D., *president*
456 N. New Ballas Rd.
St. Louis, MO 63141
314/432-1134
Meeting dates to be announced

St. Louis Academy of Ophthalmology
Samuel A. Canaan, Jr., M.D., *president*
5505 Delmar Blvd.
St. Louis, MO 63112
314/367-7077
Meeting dates to be announced

St. Louis Orthopedic Society
Ronald C. Hertel, M.D., *president*
1034 S. Brentwood
St. Louis, MO 63117
314/721-7325
Meeting dates to be announced

St. Louis Pathological Society
John Meyer, M.D., *president*
216 S. Kingshighway Blvd.
St. Louis, MO 63110
314/454-8462
Meeting dates to be announced

St. Louis Pediatric Society
Max H. Burgdorf, M.D., *president*
12303 DePaul Dr.
Bridgeton, MO 63044
314/344-6000
Meeting dates to be announced

St. Louis Society of Physical Medicine & Rehabilitation
Otakar Machek, M.D., *president*
6744 Clayton Road
St. Louis, MO 63117
314/635-6606
Meeting dates to be announced

Eastern Missouri Psychiatric Society
George T. Grossberg, M.D., *president*
1221 S. Grand
St. Louis, MO 63104
314/577-8726
Meetings are third Monday of the month

Greater St. Louis Society of Radiologists
Bruce L. McClennan, M.D., *president*
510 Kingshighway Blvd.
St. Louis, MO 63110
314/362-1053
Meeting dates to be announced

St. Louis Rheumatism Society
Terry Weiss, M.D., *president*
522 N. New Ballas Rd.
St. Louis, MO 63141
Meeting dates to be announced

St. Louis Surgical Society
Charles B. Anderson, M.D., *president*
4989 Barnes Hospital Plaza
St. Louis, MO 63110
314/362-7406
Meetings are quarterly

St. Louis Thoracic Surgical Society
Donald Judd, M.D., *president*
6125 Clayton Avenue
St. Louis, MO 63139
314/647-5525
Meeting dates to be announced

St. Louis Urological Society
Michael J. Chehval, M.D., *president*
621 S. New Ballas Rd.
St. Louis, MO 63141
314/991-2626
Meeting dates to be announced

Gateway Vascular Society
Falls B. Hershey, M.D., *president*
621 S. New Ballas Rd.
St. Louis, MO 63141
314/567-6666
Meeting dates to be announced

Insurance Plans Available to MSMA Members

Type of Coverage	*Underwriter*	*Administrator*
Professional Liability Insurance. Claim coverage available from $200,000/$600,000 to $2/$3 million. Endorsed by MSMA. Premises liability also available.	MOMEDICO (Missouri Medical Insurance Company) 10795 Watson Road St. Louis, MO 63127 800-392-8039	
Personal Disability Income. Benefits available up to $6,000 per month. Lifetime accident/to age 65 sickness coverage. Residual disability benefit available with cost of living increase provision. An individual contract with special renewal guarantees.	Commercial Insurance Company of Newark, N.J.	Fred S. James & Co. of Missouri, Inc. 2420 Pershing Road Kansas City, MO 64108 816-842-6670 231 S. Bemiston — Suite 1000 Clayton, MO 63105 314-863-7777
Overhead Expense Insurance. Benefits up to $10,000 per month. Optional 15 day or 30 day waiting periods after which payment begins from first day of disability and continues up to 2 years.	Commercial Insurance Company of Newark, N.J.	Fred S. James & Co. of Missouri, Inc. (see above)
Accidental Death and Dismemberment. Up to $200,000 coverage. May include spouse, children and employees.	Commercial Insurance Company of Newark, N.J.	Fred S. James & Co. of Missouri, Inc. (see above)
Hospital Indemnity Plan. $50 to $200 per day while hospitalized in addition to any other insurance. Family coverage available.	Commercial Insurance Company of Newark, N.J.	Fred S. James & Co. of Missouri, Inc. (see above)
Term Life Plan. Members and employees under age 60 may enroll for amounts up to $250,000. Spouses coverage, one half amount of member or employee, up to $100,000. Dependent children may be insured for $2,500.	Mutual Life Insurance Company of New York	Forrest T. Jones & Co., Inc. 3130 Broadway P.O. Box 418131 Kansas City, MO 64141 1-800-892-7272
Major Medical Plan. Pays up to a lifetime of $1,000,000. Deductibles from $200-$1,000. Coverage available to members, employees and dependents. Extremely low cost policy.	Mutual Life Insurance Company of New York	Forrest T. Jones & Co., Inc. 3130 Broadway P.O. Box 418131 Kansas City, MO 64141 1-800-892-7272
Workers' Compensation Insurance. A dividend program which returns premiums as earned each year, based on cost of claims from all participating physicians. The dividends often run between 30-40% per year.	Casualty Reciprocal Exchange, Member of Dodson Insurance Group	Dodson Insurance Group 92nd and State Line Kansas City, MO 64114 1-800-892-3431
Retirement Plan System. A comprehensive program covering design, administration, actuarial computations and the investment process.	E. F. Hutton and Company, Inc.	Trust Consultants, Inc. 100 S. Brentwood Clayton, MO 63105 314/725-9690

Missouri Volunteer Health Agencies

Patients of MSMA members are eligible, in some instances, to receive assistance from various volunteer health agencies in the state. Assistance may be in the form of free or subsidized specialized equipment, rehabilitation training, counseling, specialized care, or information.

In an effort to assist MSMA members in attaining assistance for their patients, the following list of Missouri volunteer health agencies has been compiled. In some cases, a statewide organization is listed. In instances in which an organization is limited to a certain portion of the state, several organizations may be listed under one heading.

Arthritis

Arthritis Foundation, Eastern Missouri Chapter
7315 Manchester, St. Louis 63143
314-644-3488

Arthritis Foundation, Western Missouri-Greater Kansas City Chapter
8301 State Line, Suite 117, Kansas City 64114
816-361-7002

Arthritis Institute of Greater Kansas City
6601 Rockhill Rd., Kansas City 64131
816-444-5899

Birth Defects

March of Dimes, Northern Missouri Chapter
1310 Business 63 South, Columbia 65201
314-449-0573

Blood Transfusion and Tissue Bank

Missouri/Illinois Regional Blood Services
4050 Lindell, St. Louis 63108
314-658-2000

Cancer

American Cancer Society, Missouri Division, Inc.
P.O. Box 1066, 3322 American Ave., Jefferson City 65102
314-893-4800

Cerebral Palsy

United Cerebral Palsy Association of Missouri, Inc.
125 W. Dunklin St., Suite 35, Jefferson City 65101
314-636-5334

Cystic Fibrosis

Cystic Fibrosis Foundation, Gateway Chapter
7730 Carondelet, St. Louis 63105
314-721-2490

Cystic Fibrosis Foundation, Heart of America Chapter
8080 Ward Parkway, #250, Kansas City 64114
816-363-5636

Diabetes

American Diabetes Association, Heart of America Affiliate
9201 Ward Parkway, Suite 300, Kansas City 64114
816-361-3361

American Diabetes Association, Missouri Affiliate, Inc.
213 Adams St., Jefferson City 65101
314-636-5552

American Diabetes Association, St. Louis Chapter of the Missouri Affiliate
1790 S. Brentwood Blvd., St. Louis 63144
314-968-3196

Disabled Children and Adults

Missouri Easter Seal Society, Inc.
10000 Watson Rd., St. Louis 63126
314-821-6001

Epilepsy

Epilepsy Federation, St. Louis Region
7305 Manchester, St. Louis 63143
314-645-6969

Greater Kansas City Epilepsy League
4949 Rockhill Rd., Kansas City 64110
816-276-8940

Heart

American Heart Association, Missouri Affiliate, Inc.
P.O. Box Q, 105 E. Ash, Suite 2, Columbia 65205
314-442-3193

Hemophilia

Bi-State Hemophilia Association
P.O. Box 22246, St. Louis 63116
314-771-6080

Continued on page 432

Before prescribing, see complete prescribing information in SK&F CO. literature or *PDR*. The following is a brief summary.

WARNING

This drug is not indicated for initial therapy of edema or hypertension. Edema or hypertension requires therapy titrated to the individual. If this combination represents the dosage so determined, its use may be more convenient in patient management. Treatment of hypertension and edema is not static, but must be reevaluated as conditions in each patient warrant.

Contraindications: Concomitant use with other potassium-sparing agents such as spironolactone or amiloride. Further use in anuria, progressive renal or hepatic dysfunction, hyperkalemia. Pre-existing elevated serum potassium. Hypersensitivity to either component or other sulfonamide-derived drugs.

Warnings: Do not use potassium supplements, dietary or otherwise, unless hypokalemia develops or dietary intake of potassium is markedly impaired. If supplementary potassium is needed, potassium tablets should not be used. Hyperkalemia can occur, and has been associated with cardiac irregularities. It is more likely in the severely ill, with urine volume less than one liter/day, the elderly and diabetics with suspected or confirmed renal insufficiency. Periodically, serum K^+ levels should be determined. If hyperkalemia develops, substitute a thiazide alone, restrict K^+ intake. **Associated widened QRS complex or arrhythmia requires prompt additional therapy.** Thiazides cross the placental barrier and appear in cord blood. Use in pregnancy requires weighing anticipated benefits against possible hazards, including fetal or neonatal jaundice, thrombocytopenia, other adverse reactions seen in adults. Thiazides appear and triamterene may appear in breast milk. If their use is essential, the patient should stop nursing. Adequate information on use in children is not available. Sensitivity reactions may occur in patients with or without a history of allergy or bronchial asthma. Possible exacerbation or activation of systemic lupus erythematosus has been reported with thiazide diuretics.

Precautions: The bioavailability of the hydrochlorothiazide component of 'Dyazide' is about 50% of the bioavailability of the single entity. Theoretically, a patient transferred from the single entities of triamterene and hydrochlorothiazide may show an increase in blood pressure or fluid retention. Similarly, it is also possible that the lesser hydrochlorothiazide bioavailability could lead to increased serum potassium levels. However, extensive clinical experience with 'Dyazide' suggests that these conditions have not been commonly observed in clinical practice. Angiotensin-converting enzyme (ACE) inhibitors can elevate serum potassium; use with caution with 'Dyazide'. Do periodic serum electrolyte determinations (particularly important in patients vomiting excessively or receiving parenteral fluids, and during concurrent use with amphotericin B or corticosteroids or corticotropin [ACTH]). Periodic BUN and serum creatinine determinations should be made, especially in the elderly, diabetics or those with suspected or confirmed renal insufficiency. Cumulative effects of the drug may develop in patients with impaired renal function. Thiazides should be used with caution in patients with impaired hepatic function. They can precipitate coma in patients with severe liver disease. Observe regularly for possible blood dyscrasias, liver damage, other idiosyncratic reactions. Blood dyscrasias have been reported in patients receiving triamterene, and leukopenia, thrombocytopenia, agranulocytosis, and aplastic and hemolytic anemia have been reported with thiazides. Thiazides may cause manifestation of latent diabetes mellitus. The effects of oral anticoagulants may be decreased when used concurrently with hydrochlorothiazide; dosage adjustments may be necessary. Clinically insignificant reductions in arterial responsiveness to norepinephrine have been reported. Thiazides have also been shown to increase the paralyzing effect of nondepolarizing muscle relaxants such as tubocurarine. Triamterene is a weak folic acid antagonist. Do periodic blood studies in cirrhotics with splenomegaly. Antihypertensive effects may be enhanced in post-sympathectomy patients. Use cautiously in surgical patients. Triamterene has been found in renal stones in association with the other usual calculus components. Therefore, 'Dyazide' should be used with caution in patients with histories of stone formation. A few occurrences of acute renal failure have been reported in patients on 'Dyazide' when treated with indomethacin. Therefore, caution is advised in administering nonsteroidal anti-inflammatory agents with 'Dyazide'. The following may occur: transient elevated BUN or creatinine or both, hyperglycemia and glycosuria (diabetic insulin requirements may be altered), hyperuricemia and gout, digitalis intoxication (in hypokalemia), decreasing alkali reserve with possible metabolic acidosis. 'Dyazide' interferes with fluorescent measurement of quinidine. Hypokalemia is uncommon with 'Dyazide', but should it develop, corrective measures should be taken such as potassium supplementation or increased dietary intake of potassium-rich foods. Corrective measures should be instituted cautiously and serum potassium levels determined. Discontinue corrective measures and 'Dyazide' should laboratory values reveal elevated serum potassium. Chloride deficit may occur as well as dilutional hyponatremia. Concurrent use with chlorpropamide may increase the risk of severe hyponatremia. Serum PBI levels may decrease without signs of thyroid disturbance. Calcium excretion is decreased by thiazides. 'Dyazide' should be withdrawn before conducting tests for parathyroid function. Thiazides may add to or potentiate the action of other antihypertensive drugs. Diuretics reduce renal clearance of lithium and increase the risk of lithium toxicity.

Adverse Reactions: Muscle cramps, weakness, dizziness, headache, dry mouth; anaphylaxis, rash, urticaria, photosensitivity, purpura, other dermatological conditions; nausea and vomiting, diarrhea, constipation, other gastrointestinal disturbances; postural hypotension (may be aggravated by alcohol, barbiturates, or narcotics). Necrotizing vasculitis, paresthesias, icterus, pancreatitis, xanthopsia and respiratory distress including pneumonitis and pulmonary edema, transient blurred vision, sialadenitis, and vertigo have occurred with thiazides alone. Triamterene has been found in renal stones in association with other usual calculus components. Rare incidents of acute interstitial nephritis have been reported. Impotence has been reported in a few patients on 'Dyazide', although a causal relationship has not been established.

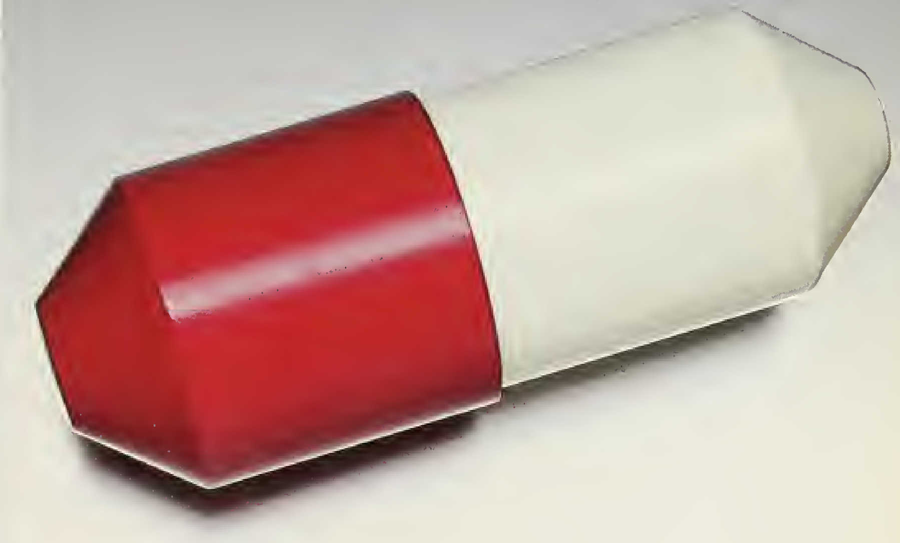
Supplied: 'Dyazide' is supplied as a red and white capsule, in bottles of 1000 capsules; Single Unit Packages (unit-dose) of 100 (intended for Institutional use only); in Patient-Pak™ unit-of-use bottles of 100.

BRS-DZ.L42

In Hypertension*... When You Need to Conserve K+

Remember the Unique Red and White Capsule: Your Assurance of SK&F Quality

Serum K^+ and BUN should be checked periodically (see Warnings and Precautions).



Potassium-Sparing

DYAZIDE®

25 mg Hydrochlorothiazide/**50 mg** Triamterene/SKF

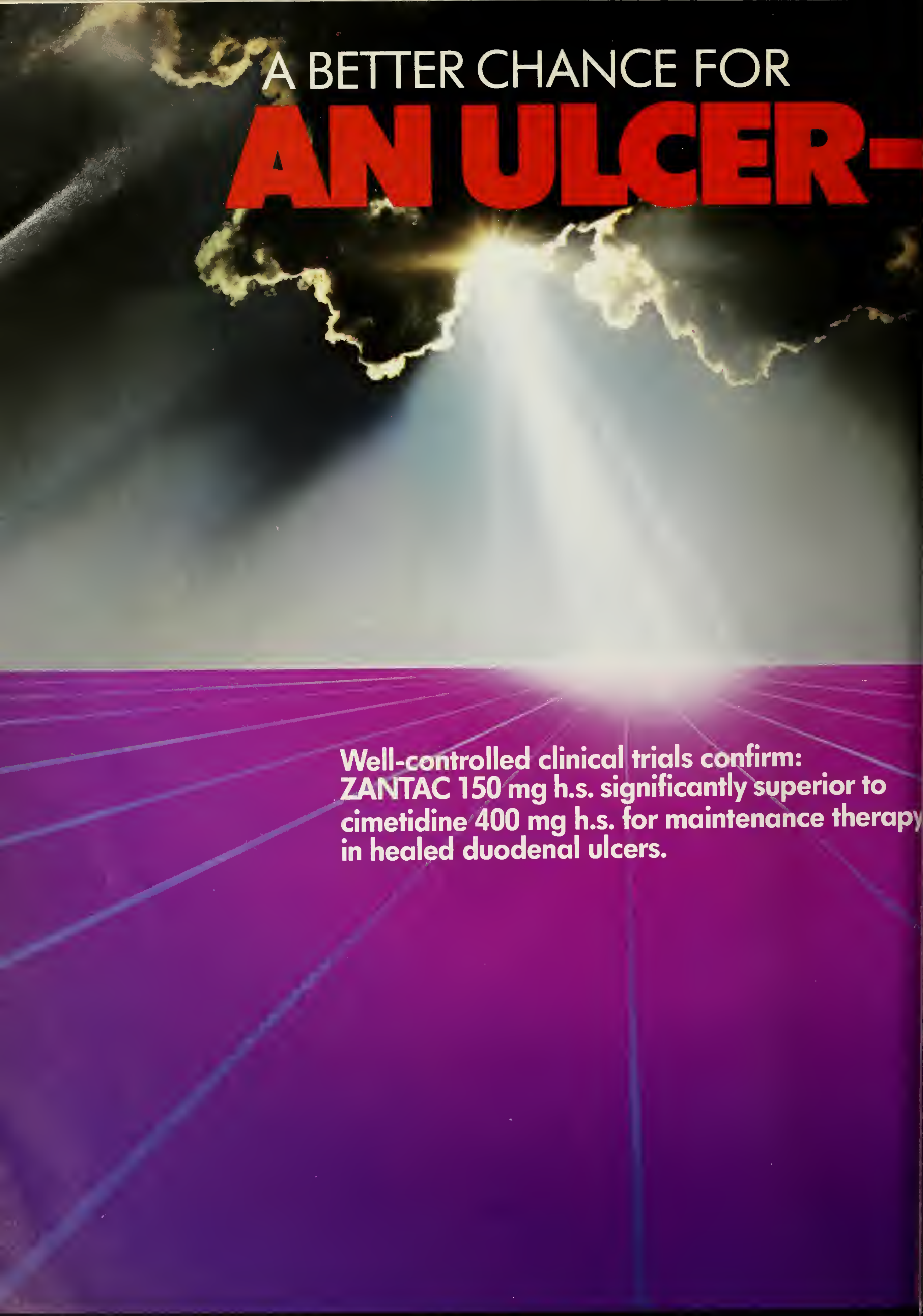
Over 20 Years of Confidence

The unique
red and white
Dyazide® capsule:
Your assurance of
SK&F quality.

DYAZIDE
SKF

a product of
SK&F CO.
Carolina, P.R. 00630

©SK&F Co 1983



A BETTER CHANCE FOR
AN ULCER-

Well-controlled clinical trials confirm: ZANTAC 150 mg h.s. significantly superior to cimetidine 400 mg h.s. for maintenance therapy in healed duodenal ulcers.

FREE FUTURE

Percent of patients ulcer-free after 1 year of therapy

ZANTAC 150 mg h.s. (n=60)	84%*
cimetidine 400 mg h.s. (n=66)	57%
ZANTAC 150 mg h.s. (n=243)	77%†
cimetidine 400 mg h.s. (n=241)	63%

*P=0.01 †P=0.0004 % life-table estimates

All patients were permitted prn antacids for relief of pain. Adapted from Silvis[1] and Gough[2]

These two trials[1,2] used the currently recommended dosing regimen of cimetidine (400 mg h.s.) and ranitidine (150 mg h.s.). A comparison of other dosing regimens has not been studied.

The studied dosing regimens are not equivalent with respect to the degree and duration of acid suppression or suppression of nocturnal acid.

The superiority of ranitidine over cimetidine in these trials indicates that the dosing regimen currently recommended for cimetidine is less likely to be as successful in maintenance therapy.

Zantac® 150 h.s.

ranitidine HCl/Glaxo 150 mg tablets

Glaxo / ROCHE® See next page for references and Brief Summary of Product Information.

ZAN375 July 1987

References: 1. Silvis SE, Griffin J, Hardin R, et al: Final report on the United States multicenter trial comparing ranitidine to cimetidine as maintenance therapy following healing of duodenal ulcer. *J Clin Gastroenterol* 1985;7(6):482-487.
2. Gough KR, Korman MG, Bardhan KD, et al: Ranitidine and cimetidine in prevention of duodenal ulcer relapse: A double-blind, randomised, multicentre, comparative trial. *Lancet* 1984;ii:659-662.

ZANTAC® 150 Tablets
(ranitidine hydrochloride)
ZANTAC® 300 Tablets
(ranitidine hydrochloride)

BRIEF SUMMARY OF PRODUCT INFORMATION

The following is a brief summary only. Before prescribing, see complete prescribing information in ZANTAC® product labeling.

INDICATIONS AND USAGE: ZANTAC® is indicated in:
1. Short-term treatment of **active duodenal ulcer.** Most patients heal within four weeks.
2. **Maintenance therapy** for duodenal ulcer patients at reduced dosage after healing of acute ulcers.
3. The treatment of **pathological hypersecretory conditions** (eg, Zollinger-Ellison syndrome and systemic mastocytosis).
4. Short-term treatment of **active, benign gastric ulcer.** Most patients heal within six weeks and the usefulness of further treatment has not been demonstrated.
5. Treatment of **gastroesophageal reflux disease (GERD).** Symptomatic relief commonly occurs within one or two weeks after starting therapy and is maintained throughout a six-week course of therapy.

In active duodenal ulcer; active, benign gastric ulcer; hypersecretory states; and GERD, concomitant antacids should be given as needed for relief of pain.

CONTRAINDICATIONS: ZANTAC® is contraindicated for patients known to have hypersensitivity to the drug.

PRECAUTIONS: Symptomatic response to ZANTAC® therapy does not preclude the presence of gastric malignancy.

Since ZANTAC is excreted primarily by the kidney, dosage should be adjusted in patients with impaired renal function (see **DOSAGE AND ADMINISTRATION**). Caution should be observed in patients with hepatic dysfunction since ZANTAC is metabolized in the liver.

False-positive tests for urine protein with Multistix® may occur during ZANTAC therapy, and therefore testing with sulfosalicylic acid is recommended.

Although recommended doses of ZANTAC do not inhibit the action of cytochrome P-450 enzymes in the liver, there have been isolated reports of drug interactions which suggest that ZANTAC may affect the bioavailability of certain drugs by some mechanism as yet unidentified (eg, a pH-dependent effect on absorption or a change in volume of distribution).

Lack of experience to date precludes recommending ZANTAC for use in children or pregnant patients. Since ZANTAC is secreted in human milk, caution should be exercised when administered to a nursing mother.

ADVERSE REACTIONS: Headache, sometimes severe, seems to be related to ZANTAC® administration. Constipation, diarrhea, nausea/vomiting, and abdominal discomfort/pain have been reported. There have been rare reports of malaise, dizziness, somnolence, insomnia, vertigo, tachycardia, bradycardia, premature ventricular beats, and arthralgias. Rare cases of reversible mental confusion, agitation, depression, and hallucinations have been reported, predominantly in severely ill elderly patients.

In normal volunteers, SGPT values were increased to at least twice the pretreatment levels in 6 of 12 subjects receiving 100 mg qid IV for seven days, and in 4 of 24 subjects receiving 50 mg qid for five days. With oral administration there have been occasional reports of reversible hepatitis, hepatocellular or hepatocanalicular or mixed, with or without jaundice.

There have been rare reports of reversible leukopenia, granulocytopenia, thrombocytopenia, and pancytopenia.

Although controlled studies have shown no antiandrogenic activity, occasional cases of gynecomastia, impotence, and loss of libido have been reported in male patients receiving ZANTAC, but the incidence did not differ from that in the general population.

Incidents of rash, including rare cases suggestive of mild erythema multiforme, and, rarely, alopecia, have been reported, as well as rare cases of hypersensitivity reactions (eg, bronchospasm, fever, rash, eosinophilia) and small increases in serum creatinine.

OVERDOSAGE: Information concerning possible overdosage and its treatment appears in the full prescribing information.

DOSAGE AND ADMINISTRATION: Active Duodenal Ulcer: The current recommended adult oral dosage is 150 mg twice daily. An alternate dosage of 300 mg once daily at bedtime can be used for patients in whom dosing convenience is important. The advantages of one treatment regimen compared to the other in a particular patient population have yet to be demonstrated.

Maintenance Therapy: The current recommended adult oral dosage is 150 mg at bedtime.

Pathological Hypersecretory Conditions (such as Zollinger-Ellison Syndrome): The current recommended adult oral dosage is 150 mg twice a day. In some patients it may be necessary to administer ZANTAC 150-mg doses more frequently. Doses should be adjusted to individual patient needs, and should continue as long as clinically indicated. Doses up to 6 g/day have been employed in patients with severe disease.

Benign Gastric Ulcer: The current recommended adult oral dosage is 150 mg twice a day.

GERD: The current recommended adult oral dosage is 150 mg twice a day.

Dosage Adjustment for Patients with Impaired Renal Function: On the basis of experience with a group of subjects with severely impaired renal function treated with ZANTAC, the recommended dosage in patients with a creatinine clearance less than 50 ml/min is 150 mg every 24 hours. Should the patient's condition require, the frequency of dosing may be increased to every 12 hours or even further with caution. Hemodialysis reduces the level of circulating ranitidine. Ideally, the dosage schedule should be adjusted so that the timing of a scheduled dose coincides with the end of hemodialysis.

HOW SUPPLIED: ZANTAC® 300 Tablets (ranitidine hydrochloride equivalent to 300 mg of ranitidine) are yellow, capsule-shaped tablets embossed with "ZANTAC 300" on one side and "Glaxo" on the other. They are available in bottles of 30 (NDC 0173-0393-40) and unit dose packs of 100 tablets (NDC 0173-0393-47).

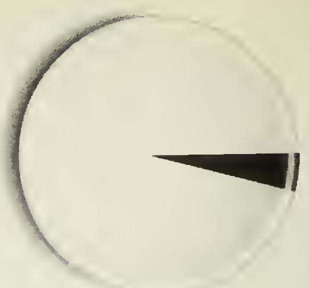
ZANTAC® 150 Tablets (ranitidine hydrochloride equivalent to 150 mg of ranitidine) are white tablets embossed with "ZANTAC 150" on one side and "Glaxo" on the other. They are available in bottles of 60 tablets (NDC 0173-0344-42) and unit dose packs of 100 tablets (NDC 0173-0344-47).

Store between 15° and 30°C (59° and 86°F) in a dry place. Protect from light. Replace cap securely after each opening.

© Copyright 1983, Glaxo Inc. All rights reserved. October 1986

Glaxo

Glaxo Inc.
Research Triangle Park, NC 27709



Give five.

What you get back is immeasurable.

Just five hours a week. Just 5% of your income. It's not much to give, to the causes you really care about. But that small investment could change somebody's life. And it's hard to imagine a better return than that.

INDEPENDENT SECTOR
Ad Council

READ THIS AD ONLY IF YOU'RE INTERESTED IN GETTING YOUR INSURANCE CLAIMS PROCESSED 7 TO 14 DAYS *FASTER*

For years Mid-America Computing, Inc. (MAC) has been submitting insurance claims to Blue Shield and Medicare for our clients electronically. This facilitated processing more claims in less time and fewer errors. The bottom line: faster turn-around of dollars back to our clients!

MAC again pioneered by becoming the FIRST in Kansas City with electronic claims processing through the National Electronic Information Corporation. That means we now provide our clients electronic time saving, bottom line turnaround cash benefits with over 40 private commercial insurance companies.

It's easy to receive MAC's one format, one source, no paper forms, no mailing, faster electronic claims submission services. Just fill in the coupon or give us a call and we'll show you, entirely without obligation, how we can improve your cash flow.

Mid-America Computing, Inc. is the one-source support organization that professionals in the medical field turn to for:

- **Complete in-house turn-key processing systems**
- **Complete facilities management**
- **Billings by batch processing**
- **On-line billing processing**
- **Electronic Insurance Claims processing**

Mid-America Computing, Inc.
A Data Mart Company
10881 Lowell, Suite 300
Overland Park, Kansas 66210
Tel. (913) 661-0400

Mid-America Computing, Inc.
10881 Lowell, Suite 300
Overland Park, KS 66210

I'm interested in improving my cash flow. Please call to arrange a no-obligation exploration of how MAC can help.

Name ....

Firm ....

Address ....

City/State/ ZIP ....

Telephone ....

■ Missouri Volunteer Health Agencies

Continued from page 430

Kidney

National Kidney Foundation of Eastern Missouri and Metro East, Inc.
225 South Meramec, Suite 200, St. Louis 63105
314-863-5858
National Kidney Foundation of Kansas and Western Missouri
One East 34th St., Kansas City 64111
816-756-2002

Lungs

American Lung Association
1835 S. Stewart, Springfield 65804
417-883-7177

American Lung Association, Central Missouri Branch
P.O. Box 1321, Columbia 65205
314-874-2616

American Lung Association of Eastern Missouri
1118 Hampton Ave., St. Louis 63139-3196
314-645-5505

American Lung Association of Western Missouri
2007 Broadway, Kansas City 64108
816-842-5242

American Lung Association, Northeast Missouri Branch
P.O. Box 574, Kirksville 63501
816-665-9403

American Lung Association, Southeast Missouri Branch
903 Themis, Cape Girardeau 63701
314-334-4007

Multiple Sclerosis

Multiple Sclerosis Society, Gateway Area Chapter
915 Olive St., Suite 815, St. Louis 63101
314-241-8285

Multiple Sclerosis Society, Mid-America Chapter
P.O. Box 2292, Shawnee Mission, KS 66201
1-800-332-0274 ext. CURE MS (KS) or
1-800-255-0390 ext. CURE MS

Multiple Sclerosis Society, Mid-Missouri Branch
1201 Paquin G-2, Columbia 65201
314-875-6767

Multiple Sclerosis Society, Ozark Branch
2149 S. Oak Grove, Springfield 65804
417-882-8128

Muscular Dystrophy

Muscular Dystrophy Association, Central Missouri Chapter
914 Tandy, Suite 2, Columbia 65201
314-442-5154

Muscular Dystrophy Association, Inc.
3910 Old Highway 94 S., St. Charles 63303-6752
314-928-9911

Muscular Dystrophy Association, Inc., Greater Ozarks Chapter
435 S. Union, Suite K, Springfield 65802-2657
417-866-5117

Muscular Dystrophy *(Continued)*

Muscular Dystrophy Association, Inc., Missouri Valley Chapter
301 E. Armour, Suite 305, Kansas City 64111
816-931-7750

Muscular Dystrophy Association, Inc., Mississippi Valley Chapter
1023 S. Big Bend Blvd., St. Louis 63117
314-644-2828

Muscular Dystrophy Association, Twin Rivers Chapter
100 Broadway, 2nd Floor, Cape Girardeau 63701
314-335-4400

Myasthenia Gravis

Myasthenia Gravis Foundation, Inc., Greater Kansas City Chapter
4949 Rockhill Rd., Kansas City 64110
816-276-8310

Neurofibromatosis

The National Neurofibromatosis Foundation, Inc., Missouri Chapter
1132 Timberline Drive, Fenton 63026
314-343-1240

Red Cross

American Red Cross, Greater Kansas City Chapter
3521 Broadway, Kansas City 64111
816-756-2365

American Red Cross, Missouri/Illinois Regional Blood Services
4050 Lindell Blvd., St. Louis 63108
314-658-2000

Retarded Citizens

Barry-Lawrence ARC
P.O. Box 244, Monett 65708
417-235-3596

Clay-Platte ARC
7211 N. Broadway, Kansas City 64118
816-436-1704

Gentry County ARC
P.O. Box 219, Albany 64402
816-726-4155

Greene County Association for ARC, Inc.
New Dimensions Activities Ctr., 1501 East Pythian, Springfield 65802
417-883-3442

Joplin Area ARC
2318 Pennsylvania, Joplin 64804
417-623-1543

St. Charles County ARC
P.O. Box 9634, 613 Westridge Dr., O'Fallon 63366
314-281-1903

Stoddard County ARC
Rt. 2, Box 11, Dexter 63841
314-624-8525

Sudden Infant Death Syndrome

SIDS Resources, Inc.
1600 A. South Big Bend, St. Louis 63117
314-644-2056

State flag of Missouri

Flag It.

To complete your prescription,
be sure to sign on the right,
on the "Dispense As Written" line.
This "flags" both pharmacist and patient
that you want the *brand* to be dispensed.
And it protects your decision.

VALIUM®
brand of
diazepam/Roche Ⓘⓥ

scored tablets

2 mg
5 mg
10 mg

The one you know best.

The cut out "V" design is a registered trademark
of Roche Products Inc.

Copyright © 1987 by Roche Products Inc.
Manati, Puerto Rico 00701. All rights reserved.

ROCHE®

Plan Ahead . . .

Everyone should have insurance, regardless of their profession. As a medical professional, you know the importance of having coverage that can help meet your needs for today and tomorrow.

The Missouri State Medical Association understands your needs and is able to protect you with comprehensive plans like these:

- $1,000,000 Major Medical Plan - $1,000,000 worth of solid major medical protection. Your choice of deductible. Coverage may be continued for life. Especially designed to help fill the needs of you, the medical professional, and your family.
- $250,000 Term Life - An inexpensive way to give your family sound financial protection. Pays up to $250,000 in benefits—spouses may be covered for up to $100,000. Volume discounts for coverage over $100,000. Make sure that your family is protected.
- Accidental Death and Dismemberment - Avoid a financial crisis in the event of a serious accident. Just $4 a month can buy $100,000 protection for you and your family. Round the clock coverage to give your family a large measure of the protection they need.

Underwritten by: The Mutual Life Insurance Company of New York

Administered by: Forrest T. Jones & Company, Inc., Kansas City, MO

For more information, CLIP THE COUPON BELOW OR CALL TOLL-FREE: National - 800-821-7303, Missouri - 800-892-7272, Kansas City 816-756-1060, ASK FOR JAN PACEY

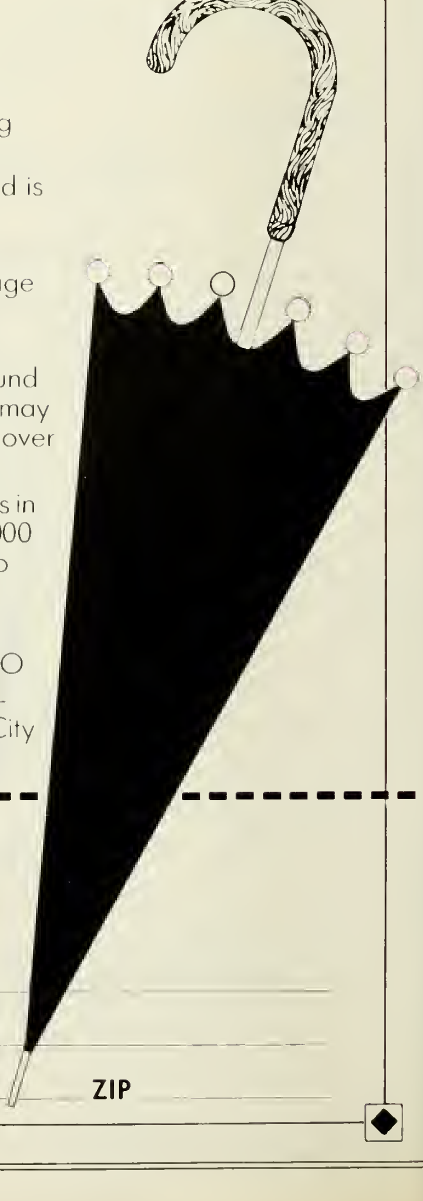
Check the boxes below for more information on MSMA-sponsored Plans and mail this coupon to: Forrest T. Jones & Company, Inc., P.O. Box 418131, Kansas City, MO 64141-9131

☐$1,000,000 Major Medical ☐$250,000 Term Life ☐$100,000 AD&D

Name ______________________

Address ______________________

City ______________ **State** __________ **ZIP** __________



Join a medical team that Guards your community and state.

As a physician in the Army National Guard, you can broaden your medical experience and life experience. You'll start as an officer, enjoying all the privileges and prestige rank can bring. And you can attend professionally approved courses at no cost. Best of all, you'll be helping people in your state and local community. People who really need your special skills. For more information, contact your Army Guard recruiter.

Captain
JOE SEILING
314-443-1737

Staff Sergeant
DAN KIRTON
816-922-3226

Toll Free In Missouri
1-800-392-2173

The Guard is America at its best.

MISSOURI
ARMY NATIONAL GUARD

Physician Rehabilitation Program Directory

For information concerning the Physician Rehabilitation Program of MSMA or to get help for an impaired colleague, yourself or your spouse, please contact the MSMA Impaired Physician Hotline or the contact person in your area. All information and identities will be held in strictest confidence, and the caller need not identify himself or herself.

Eileen Duggan, M.D., Director, *Kansas City*	(Office)816/531-1258
	(Home)816/926-0303
	(Answering Service)913/676-7201
John J. O'Hearne, M.D., *Kansas City*	816/531-7020
John P. Carmody, M.D., *St. Louis*	314/965-7440
James R. Criscione, Jr., M.D., *Kirkwood*	314/965-5600
Carl Pearman, M.D., *Columbia*	314/882-7937
Edward C. Felker, III, M.D., *Sikeston*	314/471-6992
James S. Carter, M.D., *Columbia*	314/876-1720
William I. Stryker, M.D., *St. Louis*	314/994-9163
C. E. (Gene) Ridenhour, M.D., *Columbia*	314/874-3111
Donald McIntosh, M.D., *Kansas City*	816/444-1139
John Mihalevich, M.D., *Springfield*	417/887-7002
Hugh C. Bartlett, M.D., *Rolla*	314/364-6051
Henry R. Domke, M.D., *Jefferson City*	314/634-5000
Carroll Patterson, M.D., *Liberty*	816/781-1100
Mrs. Kris Shaw, Auxiliary, *Hermann*	314/486-3392
Mrs. Patricia Molnar, Auxiliary, *Chesterfield*	314/423-9931
C. Preston Chester, D.O., *Chesterfield*	314/679-9384
Jim Williams, D.O., *Independence*	816/356-1004
Ron Hubbard, D.O., *Independence*	816/356-6680
MSMA Physician Rehabilitation Hotline	816/531-1258

Can you top this?

* Compare these graded premium whole life rates with any term:

Age	$100,000	$250,000	$500,000	$1,000,000
30	$118	$ 195	$ 371	$ 695
35	120	201	384	725
40	149	253	480	935
45	179	322	615	1205
50	221	405	770	1535
55	314	593	1160	2295
60	506	998	1974	3915
65	837	1700	3384	6725

Non-Smoker Annual Rates Shown

★ Premiums are guaranteed for the first 5 policy years.
★ Convertible to any level premium whole life offered by company.
★ Premiums increase each year to age 75 then level.
★ Rated an "A" Excellent Life Company by A. M. Best Co.

For more information, return this form or contact:

Wes Woodbury & Associates
3609 NE 62nd Terrace
Kansas City, MO 64119
816-455-3400

Amount of insurance $ ____________

Date of Birth ____________

Smoker/Non-Smoker (circle one)

Name ____________

Address ____________

City/State ____________

Zip ____________ Phone ____________

LIBRIUM® Ⓒ
chlordiazepoxide HCl/Roche
5-mg, 10-mg, 25-mg capsules
Before prescribing, please consult complete product information, a summary of which follows:
Indications: Management of anxiety disorders; short-term relief of anxiety symptoms, acute alcohol withdrawal symptoms, preoperative apprehension and anxiety. Usually not required for anxiety or tension associated with stress of everyday life. Efficacy beyond four months not established by systematic clinical studies. Periodic reassessment of therapy recommended.
Contraindications: Known hypersensitivity to the drug.
Warnings: Warn patients that mental and/or physical abilities required for tasks such as driving or operating machinery may be impaired, as may be mental alertness in children, and that concomitant use with alcohol or CNS depressants may have an additive effect. Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage. Withdrawal symptoms (including convulsions) reported after abrupt cessation of extended use of excessive doses are similar to those seen with barbiturates. Milder symptoms reported infrequently when continuous therapy is abruptly ended. Avoid abrupt discontinuation; gradually taper dosage.

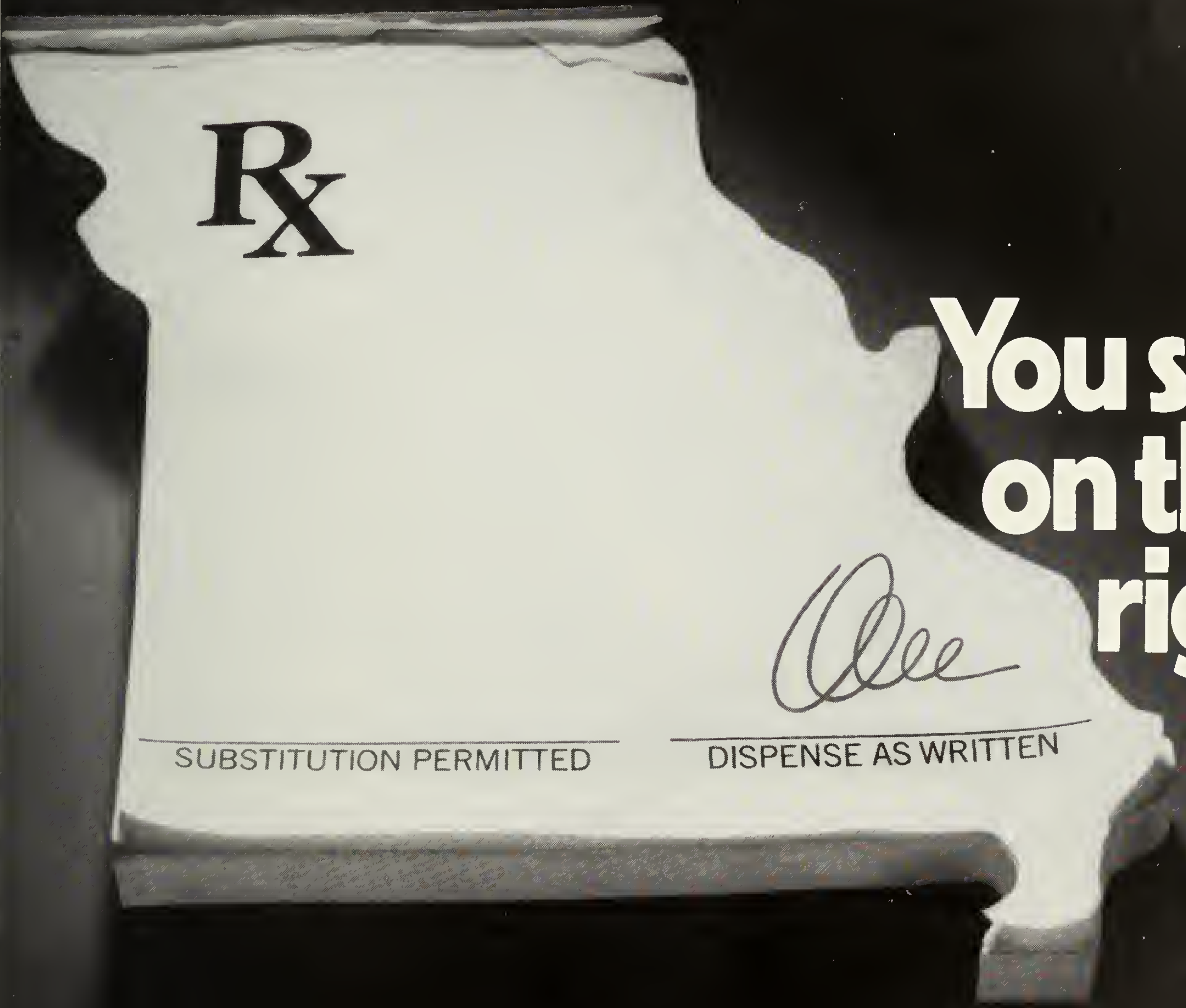
***Usage in Pregnancy:* Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically. Due to isolated reports of exacerbation, use with caution in patients with porphyria.
Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment, blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.
Usual Daily Dosage: Individualize for maximum beneficial effects. *Oral—Adults:* Mild and moderate anxiety disorders and symptoms, 5 or 10 mg *t.i.d.* or *q.i.d.*; severe states, 20 or 25 mg *t.i.d.* or *q.i.d. Geriatric patients:* 5 mg *b.i.d.* to *q.i.d.* (See Precautions.)
Supplied: Librium® (chlordiazepoxide HCl/Roche) *Capsules,* 5 mg, 10 mg and 25 mg—bottles of 100 and 500; Tel-E-Dose® packages of 100, available in boxes of 4 reverse-numbered cards of 25, and in boxes containing 10 strips of 10. Libritabs® (chlordiazepoxide/Roche) *Tablets,* 5 mg and 10 mg—bottles of 100 and 500; 25 mg—bottles of 100. With respect to clinical activity, capsules and tablets are indistinguishable. PI 0286

ROCHE®
Roche Products Inc.
Manati, Puerto Rico 00701

In Missouri, when you decide to prescribe Librium,

To protect your decision...


Rx
SUBSTITUTION PERMITTED
DISPENSE AS WRITTEN

You sign on the right.

Librium® 5-mg, 10-mg, 25-mg capsules
brand of
chlordiazepoxide HCl/Roche Ⓘⓥ
nobody does it better!

ROCHE® Copyright © 1987 by Roche Products Inc. All rights reserved.

Please see adjacent page for a summary of product information.

Investment Banking

Linking professionals to strong investment portfolios.

While you've been staying ahead at the office, how have your personal assets fared? Has their strength held against economic fluctuations and changing indexes?

To protect what you've made, turn to United Missouri's Investment Banking Division with over 55 years of experience. Our specialists can advise you on bond investments with good returns and stable quality. Growth from solid securities that withstand our tough scrutiny and meet our high standards. Such as top quality tax-exempt municipal bonds with short- or long-term maturities and a high degree of marketability.

Learn how United Missouri Bank can be your link to a strong portfolio, now and later. Call (816) 556-7200.

UNITED MISSOURI BANKS
Members FDIC

P.O. Box 419226, Kansas City, Missouri 64141-6226 (816) 556-7200

Motrin® 800 TABLETS mg
ibuprofen

800
MOTRIN 800mg

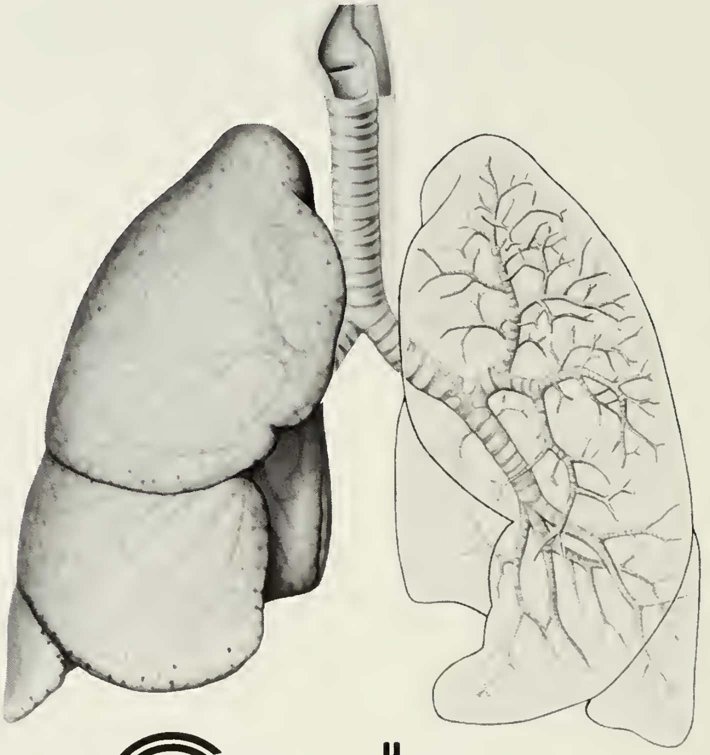
Extra strength
Convenience
Economy

Upjohn
A Century of Caring
1886·1986

©1986 The Upjohn Company

J-6138 January 1986

Consider the causative organisms...



Ceclor®
cefaclor

250-mg Pulvules® t.i.d. offers effectiveness against the major causes of bacterial bronchitis

Haemophilus influenzae, Streptococcus pneumoniae
(ampicillin-susceptible and ampicillin-resistant)

Note: Ceclor is contraindicated in patients with known allergy to the cephalosporins and should be given cautiously to penicillin-allergic patients.

Penicillin is the usual drug of choice in the treatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever. See prescribing information.

Ceclor® (cefaclor)

Summary. Consult the package literature for prescribing information.

Indications: Lower respiratory infections, including pneumonia, caused by susceptible strains of *Streptococcus pneumoniae, Haemophilus influenzae,* and *Streptococcus pyogenes* (group A β-hemolytic streptococci).

Contraindication:
Known allergy to cephalosporins.

Warnings:
CECLOR SHOULD BE ADMINISTERED CAUTIOUSLY TO PENICILLIN-SENSITIVE PATIENTS. PENICILLINS AND CEPHALOSPORINS SHOW PARTIAL CROSS-ALLERGENICITY POSSIBLE REACTIONS INCLUDE ANAPHYLAXIS

Administer cautiously to allergic patients.

Pseudomembranous colitis has been reported with virtually all broad-spectrum antibiotics. It must be considered in differential diagnosis of antibiotic-associated diarrhea. Colon flora is altered by broad-spectrum antibiotic treatment, possibly resulting in antibiotic-associated colitis.

Precautions:
- Discontinue Ceclor in the event of allergic reactions to it.
- Prolonged use may result in overgrowth of nonsusceptible organisms.
- Positive direct Coombs' tests have been reported during treatment with cephalosporins.
- Ceclor should be administered with caution in the presence of markedly impaired renal function. Although dosage adjustments in moderate to severe renal impairment are usually not required, careful clinical observation and laboratory studies should be made.
- Broad-spectrum antibiotics should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.
- Safety and effectiveness have not been determined in pregnancy, lactation, and infants less than one month old Ceclor penetrates mother's milk. Exercise caution in prescribing for these patients.

Adverse Reactions: (percentage of patients)

Therapy-related adverse reactions are uncommon. Those reported include:
- Gastrointestinal (mostly diarrhea): 2.5%.
- Symptoms of pseudomembranous colitis may appear either during or after antibiotic treatment.
- Hypersensitivity reactions (including morbilliform eruptions, pruritus, urticaria, and serum-sickness-like reactions that have included erythema multiforme [rarely, Stevens-Johnson syndrome] or the above skin manifestations accompanied by arthritis/arthralgia and, frequently, fever): 1.5%; usually subside within a few days after cessation of therapy. Serum-sickness-like reactions have been reported more frequently in children than in adults and have usually occurred during or following a second course of therapy with Ceclor. No serious sequelae have been reported. Antihistamines and corticosteroids appear to enhance resolution of the syndrome.
- Cases of anaphylaxis have been reported, half of which have occurred in patients with a history of penicillin allergy.
- As with some penicillins and some other cephalosporins, transient hepatitis and cholestatic jaundice have been reported rarely.
- Rarely, reversible hyperactivity, nervousness, insomnia, confusion, hypertonia, dizziness, and somnolence have been reported.
- Other: eosinophilia, 2%; genital pruritus or vaginitis, less than 1%; and, rarely, thrombocytopenia.

Abnormalities in laboratory results of uncertain etiology
- Slight elevations in hepatic enzymes.
- Transient fluctuations in leukocyte count (especially in infants and children).
- Abnormal urinalysis; elevations in BUN or serum creatinine.
- Positive direct Coombs' test.
- False-positive tests for urinary glucose with Benedict's or Fehling's solution and Clinitest® tablets but not with Tes-Tape® (glucose enzymatic test strip, Lilly).

[072886R]

PA 8794 AMP

©1987, ELI LILLY AND COMPANY

Lilly

700241

Additional information available to the profession on request from Eli Lilly and Company, Indianapolis, Indiana 46285

Eli Lilly Industries, Inc
Carolina, Puerto Rico 00630

Alphabetical Roster of Members

Including name and code number of each member's component medical society

A

Aaron, Geo	METRO MED-GREATER KC	098
Abada, Eleanor S	ST. LOUIS METROP.	190
Abada, Roland	ST. LOUIS METROP.	190
Abadir, Rushdy	BOONE	026
Abdel-Salam, Ahmed S	D-H-P-D	066
Abdou, Nancy L	METRO MED-GREATER KC	098
Abel, Charles C	ST. LOUIS METROP.	190
Abel, Oliver	ST. LOUIS METROP.	190
Abelardo, Miguel I	ST. LOUIS METROP.	190
Abele, Wm A	COOPER	062
Abella, Bienvenido Z	METRO MED-GREATER KC	098
Abend, Melvin N	METRO MED-GREATER KC	098
Abercrombie, Keith J	METRO MED-GREATER KC	098
Abernathie, Dennis L	BOONE	026
Abinoja, Conrado B	ST. LOUIS METROP.	190
Abodeely, Daniel A	ST. LOUIS METROP.	190
Abrams, Bernard M	METRO MED-GREATER KC	098
Abrams, Morris	ST. LOUIS METROP.	190
Abramson, Charles L	ST. LOUIS METROP.	190
Abu Dalu, Ziad	ST. LOUIS METROP.	190
Abu-Libdeh, Ali J	JASPER	102
Accardo, Pasquale J	ST. LOUIS METROP.	190
Aceto, Thomas	ST. LOUIS METROP.	190
Ackerman, Lauren	ST. LOUIS METROP.	190
Acuff, R P	BUCHANAN	030
Adams, Allen G	ST. LOUIS METROP.	190
Adams, Harold D	BOONE	026
Adams, Howard D	CLAY-PLATTE	050
Adams, Riley R	CAPE GIRARDEAU	042
Adams, Robert B	JASPER	102
Adelman, Arthur	METRO MED-GREATER KC	098
Adelman, Bruce	METRO MED-GREATER KC	098
Adelmann, Eugene	ST. LOUIS METROP.	190
Adler, Benard C	ST. LOUIS METROP.	190
Adler, Federico	METRO MED-GREATER KC	098
Aff-Drum, Helen	ST. LOUIS METROP.	190
Afuwape, Emanuel A	ST. LOUIS METROP.	190
Agee, Loren G	METRO MED-GREATER KC	098
Aguilera, Trinidad J	C-M-M-R	046
Aguinaldo, Jaime A	ST. LOUIS METROP.	190
Ahad, Khandaker A	C-M-M-R	046
Ahadi, Abd U	ST. LOUIS METROP.	190
Ahern, Archibald M	ST. LOUIS METROP.	190
Ahlering, George H	ST. LOUIS METROP.	190
Ahlum, Sandra J	NORTHEAST	150
Ahlvin, Robt C	SEMO	202
Ahmad, Aqeeb	ST. LOUIS METROP.	190
Ahmad, Naseer	ST. LOUIS METROP.	190
Ahmad, Nusrat J	ST. LOUIS METROP.	190
Ahmann, Thomas M	AUDRAIN	014
Ahmed, Iftekhar	METRO MED-GREATER KC	098
Ahuja, Suraj P	METRO MED-GREATER KC	098
Ailor, Edgar I	BOONE	026
Aitken, Louis F	ST. LOUIS METROP.	190
Ajans, Zaki A	AUDRAIN	014
Akbarnia, Behrooz A	ST. LOUIS METROP.	190
Aker, Umit T	ST. LOUIS METROP.	190
Akhter, Jeanette E	BOONE	026
Akhter, Mohammad N	BOONE	026
Akin, C D	METRO MED-GREATER KC	098
Akyol, Salim	ST. LOUIS METROP.	190
Al-Aly, Mohammed	ST. LOUIS METROP.	190
Al-Shathir, Saad	JASPER	102
Albani, Frank J	CLAY-PLATTE	050
Albano, Benj I	JEFFERSON	106
Albano, Maria C	JEFFERSON	106
Albera, Victor H	ST. LOUIS METROP.	190
Alberg, Marvin R	METRO MED-GREATER KC	098
Albert, I. Renee	ST. LOUIS METROP.	190
Albus, Thomas E	ST. LOUIS METROP.	190
Alcancia, Elpidio Y	GREENE	082
Alderman, Donald P	METRO MED-GREATER KC	098
Alderman, Thos F	METRO MED-GREATER KC	098
Aldridge, John	METRO MED-GREATER KC	098
Alegre, Jorge M	ST. LOUIS METROP.	190
Aleksander, Bernardo G	ST. LOUIS METROP.	190
Alex, Morris	ST. LOUIS METROP.	190
Alexander, George K	ST. LOUIS METROP.	190
Alexander, Sam L	WEST CENTRAL	214
Alfie, Salomon	METRO MED-GREATER KC	098
Ali, Mohammed E	METRO MED-GREATER KC	098
Ali, Syed S	ST. LOUIS METROP.	190
Allain, James J	CLAY-PLATTE	050
Allan, James R	CLAY-PLATTE	050
Allan, James E	COLE	058
Allbee, Roger H	JEFFERSON	106
Allcorn, Donald K	PETTIS	178
Allebach, Hobart K	METRO MED-GREATER KC	098
Allego, Melquiadito M	PERRY-STE GENEVIEVE	174
Alleman, Robert E	METRO MED-GREATER KC	098
Allen, Arthur A II	METRO MED-GREATER KC	098
Allen, David O	JASPER	102
Allen, Hollis N	ST. LOUIS METROP.	190
Allen, James H	ST. LOUIS METROP.	190
Allen, Jerry H	F-G-W	074
Allen, Jerry H	GREENE	082
Allen, Jos E	BOONE	026
Allen, Louis A	CLAY-PLATTE	050
Allen, Mark J	METRO MED-GREATER KC	098
Allen, Melvin A	ST. LOUIS METROP.	190
Allen, Robert W	BOONE	026
Allen, Robt E	METRO MED-GREATER KC	098
Allen, Stephen P	ST. LOUIS METROP.	190
Allen, Thomas P	METRO MED-GREATER KC	098
Allen, Willard M	ST. LOUIS METROP.	190
Allen, William Corwin	BOONE	026
Allen, Wm C	BOONE	026
Allison, James B	GREENE	082
Allphin, Barbara J	METRO MED-GREATER KC	098
Almiron, Osias A	ST. LOUIS METROP.	190
Almuttar, Wasif F	NORTHWEST	158
Alonso, J. Mario Jr.	ST. LOUIS METROP.	190
Alonso-Yague, Pascual	ST. LOUIS METROP.	190
Alpert, Martin A	BOONE	026
Alsop, Webb S Jr.	METRO MED-GREATER KC	098
Altepeter, H. Martin	ST. LOUIS METROP.	190
Altman, Martin P	ST CHARLES-LINCOLN	189
Altomare, Edward P	METRO MED-GREATER KC	098
Alul, Mohammad Ali H	ST CHARLES-LINCOLN	189
Alvarez, Ulises C	ST. LOUIS METROP.	190
Alvis, Edmund B	ST. LOUIS METROP.	190
Alyea, James O	BOONE	026
Amanat, Ebrahim	ST. LOUIS METROP.	190
Amato, Maryellen	ST. LOUIS METROP.	190
Ameduri, Clifford J	GREENE	082
Ames, Mary B	METRO MED-GREATER KC	098
Ames, Wm H	BUCHANAN	030
Amin, Navin J	ST. LOUIS METROP.	190
Amini, Jafar	METRO MED-GREATER KC	098
Amjad, Mohammad T	ST. LOUIS METROP.	190
Ammatelli, Francis J	METRO MED-GREATER KC	098
Amoury, Raymond A	METRO MED-GREATER KC	098
Amromin, George D	BOONE	026
Ancheta, Apolinario A	GREENE	082
Andersen, David A	ST. LOUIS METROP.	190
Anderson, Charles B	ST. LOUIS METROP.	190
Anderson, Douglas A	GREENE	082
Anderson, Frank K	ST CHARLES-LINCOLN	189
Anderson, Ivan A	BOONE	026
Anderson, John V	METRO MED-GREATER KC	098
Anderson, Paul B	OZARKS	166
Anderson, Philip C	BOONE	026
Anderson, Raymond B	METRO MED-GREATER KC	098
Anderson, Sue K	METRO MED-GREATER KC	098
Anderson, Thos R	BOONE	026
Andes, Elizabeth A	METRO MED-GREATER KC	098
Andres, Edward H	BUCHANAN	030
Andrews, Berneil W	CLAY-PLATTE	050
Andrus, Bailey C	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Andrus, Charles H	ST. LOUIS METROP.	190
Andrus, Don L	B-W-R-C	034
Angelos, Brad J	SEMO	202
Anglo, Luis B	ST. LOUIS METROP.	190
Anslinger, David L	ST. LOUIS METROP.	190
Anstey, Geo C	ST. LOUIS METROP.	190
Anstey, John T	ST. LOUIS METROP.	190
Antebi, Morris E	SOUTH CENTRAL	206
Anthony, Dallas D	GREENE	082
Anthony, James P	METRO MED-GREATER KC	098
Antoniou, Chris A	ST. LOUIS METROP.	190
Antonow, Juli A	ST. LOUIS METROP.	190
Apostol, Andres G	OZARKS	166
Applewhite, Thomas A	ST. LOUIS METROP.	190
Apte, Sunil M	F-G-W	074
Arbab, Ali A	METRO MED-GREATER KC	098
Arcelona, Jesus A	ST. LOUIS METROP.	190
Archer, Carol R	ST. LOUIS METROP.	190
Arenos, Proceso T	ST. LOUIS METROP.	190
Arias, Fernando	ST. LOUIS METROP.	190
Arms, Arnold V	METRO MED-GREATER KC	098
Arms, Richard A	METRO MED-GREATER KC	098
Armstrong, Jay H	CLAY-PLATTE	050
Armstrong, Stephen D	GREENE	082
Arneson, Axel N	ST. LOUIS METROP.	190
Arney, Wm G	ST. LOUIS METROP.	190
Arnold, Herbert M	BARTON	018
Arnold, John D	METRO MED-GREATER KC	098
Arnold, Kenneth J	ST. LOUIS METROP.	190
Arnold, Lowry K	METRO MED-GREATER KC	098
Arnold, Paul N	GREENE	082
Arnold, Richard C	BOONE	026
Arnot, John P	ST. LOUIS METROP.	190
Aronberg, Dixie J	ST. LOUIS METROP.	190
Aronberg, Jerome M	ST. LOUIS METROP.	190
Arribas, Aurora I	METRO MED-GREATER KC	098
Arribas, Neva P	ST. LOUIS METROP.	190
Arribas, Romeo F	METRO MED-GREATER KC	098
Arthaud, J B	BOONE	026
Arthur, Gerald L	BOONE	026
Arunski, David L	TRI-LAKES	208
Asaro, Phillip V	ST. LOUIS METROP.	190
Asel, Norman D	BOONE	026
Ash, Charles J	GREENE	082
Ashby, Jennifer D	METRO MED-GREATER KC	098
Ashby, Richard	ST. LOUIS METROP.	190
Ashcraft, Keith W	METRO MED-GREATER KC	098
Ashcraft, Walter C	JEFFERSON	106
Asher, Irving M	BOONE	026
*Asher, Kennett	CAPE GIRARDEAU	042
Ashley, Hugh V	CAPE GIRARDEAU	042
Ashley, Lillard G Jr.	METRO MED-GREATER KC	098
Ashley, Michael E	GREENE	082
Ashley, Thos E	GREENE	082
Askew, John H	SEMO	202
Astik, Jayendra B	JOHNSON	110
Atkinson, Lance D	GREENE	082
Atwell, Floyd C	METRO MED-GREATER KC	098
Aubuchon, Craig E	ST. LOUIS METROP.	190
Auclair, Ronald J	ST. LOUIS METROP.	190
Auer, Arthur I	ST. LOUIS METROP.	190
Aufderheide, G. Russell	ST. LOUIS METROP.	190
Augustin, Cesar	ST. LOUIS METROP.	190
Aulenbacher, Carl E	F-G-W	074
Auner, Cecil R	GREENE	082
Auner, John D	MINERAL AREA	138
Austin, George M	METRO MED-GREATER KC	098
Austin, James L	BOONE	026
Averill, Keith H	METRO MED-GREATER KC	098
Avila, Estrella Z	NORTHEAST	150
Avila, Patricio C	NORTHEAST	150
Avins, Laurence R	ST. LOUIS METROP.	190
Avioli, Louis V	ST. LOUIS METROP.	190
Axelrod, Janice H	ST. LOUIS METROP.	190
Axness, Mark E	GREENE	082
Ayata, Sedat M	ST. LOUIS METROP.	190
Aykent, Yavuz	ST. LOUIS METROP.	190
Aylward, Howard J Jr.	ST. LOUIS METROP.	190
Aylward, Howard J Sr.	ST. LOUIS METROP.	190
Ayvazian, Vatche H	ST. LOUIS METROP.	190
Azad, Arifa	ST. LOUIS METROP.	190
Azan, Abraham N	PETTIS	178
Azan, Kenneth N	PETTIS	178
Azu, Charles C	ST. LOUIS METROP.	190
Azzam, Farid J	ST. LOUIS METROP.	190

B

*Baade, Norman F	BUCHANAN	030
Babka, Joseph J	ST. LOUIS METROP.	190
Bach, Lysle M	NORTHEAST	150
Back, Donald K	GREENE	082
Backer, Matt H	ST. LOUIS METROP.	190
Backer, Robert J	ST. LOUIS METROP.	190
Bade, Bruce	C-M-M-R	046
Baer, Alvin J	METRO MED-GREATER KC	098
Bagby, Jack M Jr	GREENE	082
Bagby, James W	ST. LOUIS METROP.	190
Baglan, Robert J	ST. LOUIS METROP.	190
Bagwe, Lata R	ST. LOUIS METROP.	190
Bagwe, Ranjit M	ST CHARLES-LINCOLN	189
Bahn, Chas F	CAPE GIRARDEAU	042
Bai, Samuel S	JEFFERSON	106
Baik, Kenneth Y	SALINE	198
Bailey, Alan H	GREENE	082
Bailey, Drennan	ST. LOUIS METROP.	190
Bailey, Gregory J	ST. LOUIS METROP.	190
Bailey, Wm H	ST. LOUIS METROP.	190
Baird, Keim L	ST CHARLES-LINCOLN	189
Baker, Carl N	ST. LOUIS METROP.	190
Baker, David M	GREENE	082
Baker, Donald L	F-G-W	074
Baker, Gary E	F-G-W	074
Baker, Josephine D	C-M-M-R	046
Baker, Philip J	METRO MED-GREATER KC	098
Baker, Sherwood	BOONE	026
Baker, Warren C	ANDREW	010
Baldwin, Richard	ST. LOUIS METROP.	190
Baldwin, Richard M	GREENE	082
Baldwin, Theodore R	LAFAYETTE-RAY	118
Bale, Robert D	ST. LOUIS METROP.	190
Balfe, Dennis M	ST. LOUIS METROP.	190
Balhuizen, John	CLAY-PLATTE	050
Ballal, Hebri S	ST. LOUIS METROP.	190
Ballard, Dewey P	BUCHANAN	030
Ballard, V. Bryce	METRO MED-GREATER KC	098
Ballinger, Walter F	ST. LOUIS METROP.	190
Balster, Vernon H	ST. LOUIS METROP.	190
Bamshad, Jerry	ST. LOUIS METROP.	190
Bandle, Donald F	ST. LOUIS METROP.	190
Banerjee, Dilip	F-G-W	074
Banerji, Debabrata	ST. LOUIS METROP.	190
Banez, Colita L	ST. LOUIS METROP.	190
Bankuti, Ferenc	METRO MED-GREATER KC	098
Banton, M. Roman	ST. LOUIS METROP.	190
Banton, Michael R	ST. LOUIS METROP.	190
Banton, Thomas J	ST. LOUIS METROP.	190
Banton, William C II	ST. LOUIS METROP.	190
Barbe, David O	SOUTH CENTRAL	206
Barbee, Chas W	BOONE	026
Barber, Georgory B	METRO MED-GREATER KC	098
Barbero, Giulio J	BOONE	026
Barbour, Marvin R	B-W-R-C	034
Bardsley, John L	ST. LOUIS METROP.	190
Bare, Chester I Jr.	METRO MED-GREATER KC	098
Bare, Edward F	NORTHWEST	158
Bareis, Robt J	WEBSTER	210
Barelli, Pat A	METRO MED-GREATER KC	098
Bari, Wagih A	ST. LOUIS METROP.	190
Barker, A. Paul	METRO MED-GREATER KC	098
Barker, Edward T	ST. LOUIS METROP.	190
Barkett, Kenneth J	SEMO	202
Barloon, James H	METRO MED-GREATER KC	098
Barlow, Val John	ST. LOUIS METROP.	190
Barnard, John L Jr.	METRO MED-GREATER KC	098
Barner, Hendrick B	ST. LOUIS METROP.	190
Barnett, Floyd A	C-M-M-R	046
Barnett, Gordon P	METRO MED-GREATER KC	098
Barnhill, Floyd R	GREENE	082
Barr, Glenn A	METRO MED-GREATER KC	098
Barr, W. Kent	METRO MED-GREATER KC	098
Barragan, Hector D	ST. LOUIS METROP.	190
Barrett, Scott R Sr.	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Barrow, Jack	ST. LOUIS METROP.	190
Barry, Wm B	METRO MED-GREATER KC	098
Bart, Gerald N	ST. LOUIS METROP.	190
Bartell, Michael F	ST. LOUIS METROP.	190
Barter, Bruce	METRO MED-GREATER KC	098
Barthel, James S	BOONE	026
Bartlett, Hugh C	MID-MISSOURI	135
Bartlett, John E	GREENE	082
Bartley, Richard L	GREENE	082
Bartnick, Mitchel L	ST. LOUIS METROP.	190
Barton, Jean C	METRO MED-GREATER KC	098
Barton, Premsri T	ST. LOUIS METROP.	190
Barton, Robert W	ST. LOUIS METROP.	190
Bartulica, Nicholas	BUCHANAN	030
Basantz, Fernando V	METRO MED-GREATER KC	098
Bashiti, Mohammad F	ST. LOUIS METROP.	190
Baska, Richard E	METRO MED-GREATER KC	098
Baskurt, Mehmet V	B-W-R-C	034
Bass, Barry J	MID-MISSOURI	135
Bass, James J	MID-MISSOURI	135
Bass, Walter R	METRO MED-GREATER KC	098
Bassett, Gary L	CAPE GIRARDEAU	042
Bassman, Donald R	ST. LOUIS METROP.	190
Batan-Co, Ruby L	ST. LOUIS METROP.	190
Bates, G. Comer	CLAY-PLATTE	050
Batts, Barbara A	METRO MED-GREATER KC	098
Baue, Arthur E	ST. LOUIS METROP.	190
Bauer, Daniel J	ST. LOUIS METROP.	190
Bauer, Eugene A	ST. LOUIS METROP.	190
Bauer, John H	BOONE	026
Bauer, John D	ST. LOUIS METROP.	190
Bauer, Jos A	ST. LOUIS METROP.	190
Bauer, Lafe W	METRO MED-GREATER KC	098
Baula, Armindo G	ST. LOUIS METROP.	190
Baum, Frank E	METRO MED-GREATER KC	098
Bauman, Henry C	NORTHWEST	158
Bauman, Mark A	B-W-R-C	034
Baumann, Albert R	MID-MISSOURI	135
Bauschard, Frederick D	ST. LOUIS METROP.	190
Bautista, Rogelio L	C-M-M-R	046
Bauwens, Daniel B	ST. LOUIS METROP.	190
Bay, Merrill R	METRO MED-GREATER KC	098
Bayer, William L	METRO MED-GREATER KC	098
Bealer, Louis A	LACLEDE	115
Beall, McPherson S Jr.	METRO MED-GREATER KC	098
Beare, J. Byron	ST. LOUIS METROP.	190
Beare, Lucia V	ST. LOUIS METROP.	190
Beasley, Louis K	ST. LOUIS METROP.	190
Beato, David L	ST. LOUIS METROP.	190
Beatty, Eugene C	METRO MED-GREATER KC	098
Beatty, Nina D	METRO MED-GREATER KC	098
Beatty, Robert M	METRO MED-GREATER KC	098
Beaty, Wm R	ST. LOUIS METROP.	190
Beauchamp, Gary D	METRO MED-GREATER KC	098
Beck, Calvin E	METRO MED-GREATER KC	098
Beck, Marcus R	BOONE	026
Beck, Paul M	BUCHANAN	030
Becker, Bernard	ST. LOUIS METROP.	190
Becker, Paul A	METRO MED-GREATER KC	098
Becker, Robt L	ST. LOUIS METROP.	190
Becker, Rolfe A	METRO MED-GREATER KC	098
Becker, Stanley C	ST. LOUIS METROP.	190
Beckett, Wm. Wilson	BOONE	026
Beckette, Edmund	ST. LOUIS METROP.	190
Beeks, John W	METRO MED-GREATER KC	098
Behbahani, Parviz M	ST. LOUIS METROP.	190
Beheler, Edward M	BUCHANAN	030
Behrends, Steven H	METRO MED-GREATER KC	098
Behrens, Donald T	ST. LOUIS METROP.	190
Behrens, Gerald L	ST. LOUIS METROP.	190
Beidle, Raymond J	ST. LOUIS METROP.	190
Beisner, Donald H	GREENE	082
Beitman, Bernard D	BOONE	026
Belden, Edgar A	COLE	058
Belden, Jeffery L	BOONE	026
Belen, Marietta	JEFFERSON	106
Belew, Joe E	ST. LOUIS METROP.	190
Bell, Hubert H	METRO MED-GREATER KC	098
Bell, Laird A	GREENE	082
Bell, Malinda H	METRO MED-GREATER KC	098
Bell, Martin J	ST. LOUIS METROP.	190
Bell, Robt M	NORTHEAST	150
Bell, Stephen	ST. LOUIS METROP.	190
Bell, Wm F	METRO MED-GREATER KC	098
Beller, Thomas A	METRO MED-GREATER KC	098
Belshe, Sidney B	COLE	058
Benage, Clarence M	ST. LOUIS METROP.	190
Benedict, William W	ST. LOUIS METROP.	190
Benitez, Jose A	CALLAWAY	038
Bennett, Danny L	METRO MED-GREATER KC	098
Bennett, James D	METRO MED-GREATER KC	098
Bennett, John	ST. LOUIS METROP.	190
Bennett, John E	BOONE	026
Bennett, Robert U	GREENE	082
Benoist, Louis A	B-W-R-C	034
Benoist, Walter F	ST. LOUIS METROP.	190
Benoit, Hector W	METRO MED-GREATER KC	098
Benson, Larry F	CLAY-PLATTE	050
Benson, Ronald G	GREENE	082
Benson, Scott C	BUCHANAN	030
Benson, William F	METRO MED-GREATER KC	098
Bentlage, Charles H	JASPER	102
Bentley, John D	GREENE	082
Berard, Louis N	ST. LOUIS METROP.	190
Berdy, Gregg J	ST. LOUIS METROP.	190
Berdy, Susan S	ST. LOUIS METROP.	190
Berg, Edward F	ST. LOUIS METROP.	190
Berg, Leonard	ST. LOUIS METROP.	190
Berg, Ralph	ST. LOUIS METROP.	190
Berger, Edward J	ST. LOUIS METROP.	190
Bergmann, Dwayne L	ST. LOUIS METROP.	190
Bergmann, John F	ST. LOUIS METROP.	190
Bergmann, Martin	ST. LOUIS METROP.	190
Bergner, Grace E	ST. LOUIS METROP.	190
Berkowitz, Ellis R	BUCHANAN	030
Berland, David I	ST. LOUIS METROP.	190
Berland, Harry I	ST. LOUIS METROP.	190
Berman, Wm	ST. LOUIS METROP.	190
Bernabe, Florinio H	ST. LOUIS METROP.	190
Bernabe, Ofelia M	ST. LOUIS METROP.	190
Bernard, James W	PEMISCOT	170
Berndsen, Gerard H	ST. LOUIS METROP.	190
Berner, Carol T	GREENE	082
Berni, Anthony A	ST. LOUIS METROP.	190
Bernstein, Aaron M	ST. LOUIS METROP.	190
Berry, John W	ST. LOUIS METROP.	190
Berry, John M	METRO MED-GREATER KC	098
Berry, Maxwell G	METRO MED-GREATER KC	098
Berwald, David M	ST. LOUIS METROP.	190
Berwald, Irvin I	ST. LOUIS METROP.	190
Best, John A	ST. LOUIS METROP.	190
Best, John F	GREENE	082
Best, Robt B	LAFAYETTE-RAY	118
Bettinger, Irene E	METRO MED-GREATER KC	098
Bettonville, Paul J	ST. LOUIS METROP.	190
Bettonville, Peter V	ST. LOUIS METROP.	190
Betz, Richard J	OZARKS	166
Betz, Robert F	OZARKS	166
Bever, Grant A	METRO MED-GREATER KC	098
*Beyer, Craig F	ST. LOUIS METROP.	190
*Beyer, Phillip M	MINERAL AREA	138
Bhati, Deo K	MID-MISSOURI	135
Bhattacharya, Arjun	ST. LOUIS METROP.	190
Bhend, David P	JASPER	102
Bhothinard, Bhisit	B-W-R-C	034
Bhuyan, Mahendra	ST. LOUIS METROP.	190
Bialecki, Leon	ST. LOUIS METROP.	190
Biber, Robert J	METRO MED-GREATER KC	098
Bickel, Vern T	BARTON	018
Bickley, James E	METRO MED-GREATER KC	098
Biddy, Ralph L	ST. LOUIS METROP.	190
Bidnick, Terrance A	METRO MED-GREATER KC	098
Bidwell, Robt E	METRO MED-GREATER KC	098
Biery, Richard M	METRO MED-GREATER KC	098
Biggs, Alfred D Jr.	METRO MED-GREATER KC	098
Biggs, F. Douglas	ST. LOUIS METROP.	190
Biggs, Fred J	B-W-R-C	034
Biggs, Harry L	METRO MED-GREATER KC	098
Biggs, John	ST. LOUIS METROP.	190
Bilchik, Ronald C	ST. LOUIS METROP.	190
Billian, Virginia L	COLE	058
Bills, Marvin L	METRO MED-GREATER KC	098
Billy, Lawrence J	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Bilsky, Nathan	ST. LOUIS METROP.	190
Binda, Robert E	METRO MED-GREATER KC	098
Bindbeutel, Donald A	ST. LOUIS METROP.	190
Binnington, H B	ST. LOUIS METROP.	190
Binz, Donald E	ST CHARLES-LINCOLN	189
Bircher, John L	ST. LOUIS METROP.	190
Bird, H W	ST. LOUIS METROP.	190
Bird, William F	WEST CENTRAL	214
Birenbaum, Aaron	ST. LOUIS METROP.	190
Birenboim, Nancy	METRO MED-GREATER KC	098
Birge, Clifford A	ST. LOUIS METROP.	190
Birkby, Wm F	BOONE	026
Bishop, Marion D	ST. LOUIS METROP.	190
Bixler, Daniel K	METRO MED-GREATER KC	098
Bizek, J L	OZARKS	166
Black, Don A	METRO MED-GREATER KC	098
Black, Joseph T	ST. LOUIS METROP.	190
Black, Saml P	BOONE	026
Black, Thomas C	METRO MED-GREATER KC	098
Blackburn, Michael D	BOONE	026
Blackman, Jacques D	LAFAYETTE-RAY	118
Blackwell, Charles R	ST. LOUIS METROP.	190
Blackwell, Chas W	BOONE	026
Blades, Ross D	GREENE	082
Blaine, James R	GREENE	082
Blair, John Douglas	ST. LOUIS METROP.	190
Blair, Olga M	ST. LOUIS METROP.	190
Blair, Vilray P III	ST. LOUIS METROP.	190
Blair, Vilray P Jr.	ST. LOUIS METROP.	190
Blalock, Robt W	SALINE	198
Blank, Michael K	JEFFERSON	106
Blanke, Thomas J	ST. LOUIS METROP.	190
Blankenship, Dale M	CAPE GIRARDEAU	042
Blankenship, Geo W	OZARKS	166
Blanton, Jos C	SEMO	202
Blaskiewicz, Robert J	ST. LOUIS METROP.	190
Blath, Richard A	ST. LOUIS METROP.	190
Blim, Richard D	METRO MED-GREATER KC	098
Block, Arnold S	ST. LOUIS METROP.	190
Bloomberg, Gordon R	ST. LOUIS METROP.	190
Blount, Gary L	BOONE	026
Blumenthal, Mark F	ST. LOUIS METROP.	190
Blythe, James G	ST. LOUIS METROP.	190
Bo-Linn, George W	ST. LOUIS METROP.	190
Bobrow, James C	ST. LOUIS METROP.	190
Bock, Linda P	ST. LOUIS METROP.	190
Bode, Eugene T	METRO MED-GREATER KC	098
Bodenhausen, Gary E	METRO MED-GREATER KC	098
Bodie, Mary M	ST. LOUIS METROP.	190
Boedeker, James P	ST. LOUIS METROP.	190
Bogart, Douglas B	METRO MED-GREATER KC	098
Bohigian, G M	ST. LOUIS METROP.	190
Bohnsack, Ralph W	GRAND RIVER	078
Boldizar, Albert G	ST. LOUIS METROP.	190
Boldt, Thos H	ST. LOUIS METROP.	190
Boles, C R	ST. LOUIS METROP.	190
Boles, Murray	BOONE	026
Bolesta, E. Stephen	BOONE	026
Bolinske, Robt E	ST. LOUIS METROP.	190
Bollozos, George D	ST. LOUIS METROP.	190
Bolman, R. Morton III	ST. LOUIS METROP.	190
Bolton, Robert L	ST. LOUIS METROP.	190
Bonacorsi, John	ST. LOUIS METROP.	190
Bond, Leslie F	ST. LOUIS METROP.	190
Bondurant, Bryce H	ST. LOUIS METROP.	190
Bonebrake, Albert J	GREENE	082
Bonebrake, Mac D	GREENE	082
Bonfanti, Albert L	ST. LOUIS METROP.	190
Bonfili, Hubert F	ST. LOUIS METROP.	190
Bonham, Roger D	BOONE	026
Bonifacio, Andres S	JEFFERSON	106
Boniuk, Isaac	ST. LOUIS METROP.	190
Bonney, Saml C	F-G-W	074
Bonsanti, Robt L	ST. LOUIS METROP.	190
Boone, Danl C	CLAY-PLATTE	050
Boone, Martin H Jr	GREENE	082
Boonshaft, Benje	ST. LOUIS METROP.	190
Bopp, J. Ronald	JASPER	102
Bordy, Marvin D	METRO MED-GREATER KC	098
Borello, Dan J	JASPER	102
Borja, Egbert R	GREENE	082
Borodach, Gerold N	ST. LOUIS METROP.	190
Borowsky, Benj A	ST. LOUIS METROP.	190
Borromeo, Carlos J	NORTHEAST	150
Bortnick, Arthur R	ST. LOUIS METROP.	190
Bortnick, Eugene	METRO MED-GREATER KC	098
Borup, Jerrell L	GREENE	082
Botwin, Arnold E	METRO MED-GREATER KC	098
Bouhasin, John D	ST. LOUIS METROP.	190
Boulware, William T	GRAND RIVER	078
Bourgeois, Curtis H	BOONE	026
Bourjolly, Wilson P	ST. LOUIS METROP.	190
Bourke, Thos E	ST. LOUIS METROP.	190
Boveri, Jos C	ST. LOUIS METROP.	190
Bowdern, Edward H	ST. LOUIS METROP.	190
Bowe, Christopher C	ST. LOUIS METROP.	190
Bowen, Stephen F Jr.	ST. LOUIS METROP.	190
Bowen, William G	ST. LOUIS METROP.	190
Bower, James S	METRO MED-GREATER KC	098
Bower, Richard	ST. LOUIS METROP.	190
Bowerman, Harold H	ST. LOUIS METROP.	190
Bowers, Gregory R	SEMO	202
Bowers, James E	ST. LOUIS METROP.	190
*Bowers, James L	BUCHANAN	030
Bowersox, Warren A	ST. LOUIS METROP.	190
Bowles, G R	ST. LOUIS METROP.	190
Bowles, Richard P JR	SOUTH CENTRAL	206
Bowles, Richard P	CLAY-PLATTE	050
Bowles, Wm T	ST. LOUIS METROP.	190
Bowlin, Steven K	METRO MED-GREATER KC	098
Bowman, Melvin C	OZARKS	166
Bowman, W. Kirk	CAPE GIRARDEAU	042
Bowser, John F	METRO MED-GREATER KC	098
Bowser, Robert L	CLAY-PLATTE	050
Boyarsky, Saul	ST. LOUIS METROP.	190
Boyce, John M	PETTIS	178
Boyd, Dorothy J	METRO MED-GREATER KC	098
Boyd, George K	METRO MED-GREATER KC	098
Boydston, Catherine O	LAFAYETTE-RAY	118
Boydston, Wyatt W	LAFAYETTE-RAY	118
Boyer, Peter A	COLE	058
Boyer, Philip A	METRO MED-GREATER KC	098
Boylan, Peter C	METRO MED-GREATER KC	098
Brabbee, Gregory W	ST. LOUIS METROP.	190
Braby, Howard H	METRO MED-GREATER KC	098
Bradford, John F	METRO MED-GREATER KC	098
Bradley, J. Douglas	BUCHANAN	030
Bradley, James K	METRO MED-GREATER KC	098
Bradley, Richard V	ST. LOUIS METROP.	190
Bradley, Wm W	AUDRAIN	014
Bradshaw, Wm D	BOONE	026
Brady, Harry R	ST. LOUIS METROP.	190
Brady, Hugh S	LAFAYETTE-RAY	118
Brady, Timothy T	ST. LOUIS METROP.	190
Brancato, Donald H	ST. LOUIS METROP.	190
Brand, Earl L	ST. LOUIS METROP.	190
Brand, Stanley N	METRO MED-GREATER KC	098
Brandon, Frederick M	JASPER	102
Brandwin, Leslie M	ST. LOUIS METROP.	190
Brangle, Robt W	ST. LOUIS METROP.	190
Braun, Alan L	COLE	058
Braunschweig, Ralph	BOONE	026
Braverman, Abe E	METRO MED-GREATER KC	098
Braxton, Frank W	CAPE GIRARDEAU	042
Brazil, Maria J	ST. LOUIS METROP.	190
Brazos, John C	PETTIS	178
Breckenridge, Robert L	CLAY-PLATTE	050
Breeden, Richard L	MID-MISSOURI	135
Bregant, Robt E	COLE	058
Breipohl, Gary W	JASPER	102
Bremer, Rita F	ST. LOUIS METROP.	190
Brennan, Danl J	ST. LOUIS METROP.	190
Brennan, Geo A	ST. LOUIS METROP.	190
Brennan, Richard J	BUCHANAN	030
Brennan, Robert A Jr.	ST. LOUIS METROP.	190
Brennan, Robt V	ST. LOUIS METROP.	190
Brennan, Robt A Sr.	ST. LOUIS METROP.	190
Brent, Lanny R Jr	GREENE	082
Brereton, Robt L	ST. LOUIS METROP.	190
Breshears, Edwin D	CALLAWAY	038
Brewer, Joseph H	METRO MED-GREATER KC	098
Brewer, Nelson S	CAPE GIRARDEAU	042
Brian, Wm J	GREENE	082
Brick, Jeffrey M	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Bricker, Eugene M	ST. LOUIS METROP.	190
Bridwell, Keith H	ST. LOUIS METROP.	190
Brielmaier, Charles	ST. LOUIS METROP.	190
Brigden, Robert B	JASPER	102
Briggs, Thomas B	GREENE	082
Brigham, David W	ST. LOUIS METROP.	190
Bright, James E	GREENE	082
Brill, Joachim R	CLAY-PLATTE	050
Brinkman, Robert A	ST. LOUIS METROP.	190
Brion, Pacelli E	ST. LOUIS METROP.	190
Bristow, Robert B	BUCHANAN	030
Britt, Cornelius L	JEFFERSON	106
Broaddus, Loren E	GREENE	082
Brock, Arthur L	METRO MED-GREATER KC	098
Brockman, M. Douglas	GREENE	082
Brodeur, Armand E	ST. LOUIS METROP.	190
Brodine, William N	METRO MED-GREATER KC	098
Brodkey, Mark J	METRO MED-GREATER KC	098
Brody, Arnold G	ST. LOUIS METROP.	190
*Bronfman, Jana R	BUCHANAN	030
Bronson, Shael S	ST. LOUIS METROP.	190
Brook, Charles J	METRO MED-GREATER KC	098
Brookes, Robt D	ST. LOUIS METROP.	190
Brookreson, Alton D	B-W-R-C	034
Brooks, Albert D	ST. LOUIS METROP.	190
Brooks, Carolyn E	GRAND RIVER	078
Brooks, Charles S	BOONE	026
Brooks, John E	GREENE	082
Brothers, Mary E	METRO MED-GREATER KC	098
Broun, Goronwy O Jr.	ST. LOUIS METROP.	190
Brower, Clyde L	METRO MED-GREATER KC	098
Brown, Adrian J	METRO MED-GREATER KC	098
Brown, Barry D	ST. LOUIS METROP.	190
Brown, David W	GREENE	082
Brown, Elwyn S	METRO MED-GREATER KC	098
Brown, Frances S	METRO MED-GREATER KC	098
Brown, Frederick B	OZARKS	166
Brown, Freeman F III	ST. LOUIS METROP.	190
Brown, Henry (Hal) S	CAPE GIRARDEAU	042
Brown, Irwin S	METRO MED-GREATER KC	098
Brown, James T	GREENE	082
Brown, Katherine S	CALLAWAY	038
Brown, Menzie H	METRO MED-GREATER KC	098
Brown, Merlin D	BUCHANAN	030
Brown, Mike J	CAPE GIRARDEAU	042
Brown, Robt S	METRO MED-GREATER KC	098
Brown, Scott H	METRO MED-GREATER KC	098
Brown, Scott S	BUCHANAN	030
Brown, Seymour	ST. LOUIS METROP.	190
Browne, Jon E	METRO MED-GREATER KC	098
Browning, Ronald A	JASPER	102
Brownsworth, Ronnie D	GREENE	082
Broyles, Watkins A	GRAND RIVER	078
Bruce, Helen L	ST. LOUIS METROP.	190
Bruce, Leo A	SEMO	202
Brukardt, Diane T	BOONE	026
Bruner, Claude R	BOONE	026
Bruner, Robt E	METRO MED-GREATER KC	098
Bruns, Kenneth	ST. LOUIS METROP.	190
Brunt, L. Michael	ST. LOUIS METROP.	190
Brunworth, David	F-G-W	074
Bryan, Wm H	METRO MED-GREATER KC	098
Bryan, Wm T	ST. LOUIS METROP.	190
Bryant, T J	METRO MED-GREATER KC	098
Buben, Robt W	NORTHEAST	150
Buchanan, Barbara N	METRO MED-GREATER KC	098
Bucher, William C	BOONE	026
Buchert, Peter K	BOONE	026
Bucholz, Richard D	ST. LOUIS METROP.	190
Buchwach, Kenneth A	METRO MED-GREATER KC	098
Buckner, Robt C	METRO MED-GREATER KC	098
Bucy, James G	ST. LOUIS METROP.	190
Budd, John J Jr.	ST. LOUIS METROP.	190
Budke, Harold A	METRO MED-GREATER KC	098
Buehler, Carl T Jr	LAKE OF THE OZARKS	120
Buettner, John Brigham	ST. LOUIS METROP.	190
Buie, Bruce R	METRO MED-GREATER KC	098
Buie, Steven E	METRO MED-GREATER KC	098
Bukstein, Michael J	NORTHEAST	150
Bumgarner, James E	BOONE	026
Bumgarner, Roger W	BOONE	026
Bunge, Nancy J	AUDRAIN	014
Bunting, Williston P	METRO MED-GREATER KC	098
Burch, John E	JASPER	102
Burch, Phillip M	ST. LOUIS METROP.	190
Burcham, Tom R	CAPE GIRARDEAU	042
Burde, Ronald M	ST. LOUIS METROP.	190
Burdge, Robert E	ST. LOUIS METROP.	190
Burford, Edwin K	CAPE GIRARDEAU	042
Burgdorf, Max H	ST. LOUIS METROP.	190
Burgess, Dean	ST. LOUIS METROP.	190
Burk, Emmett K	CLAY-PLATTE	050
Burke, Robt J	ST. LOUIS METROP.	190
Burkey, Jordan W	GREENE	082
Burkhart, Edward F	ST. LOUIS METROP.	190
Burkman, Kip A	BOONE	026
Burleigh, Bruce W	JASPER	102
Burmeister, Ray W	ST. LOUIS METROP.	190
Burnett, Dak R	BUCHANAN	030
Burns, Edward L	ST. LOUIS METROP.	190
Burns, Francis J	ST. LOUIS METROP.	190
Burns, Francis R	NORTHEAST	150
Burns, Michael F	ST. LOUIS METROP.	190
Burns, Robert P	BOONE	026
Burns, Thos W	BOONE	026
Burr, Donald C	ST. LOUIS METROP.	190
Burroughs, Nathan D	CLAY-PLATTE	050
Burry, Virgil F	METRO MED-GREATER KC	098
Burst, Donald O	ST. LOUIS METROP.	190
Burstein, Robt	ST. LOUIS METROP.	190
Burton, Dale F	NORTHEAST	150
Busby, Wm E	COLE	058
Busch, Anthony K	ST. LOUIS METROP.	190
Busiek, Paul J	GREENE	082
Busiek, Urban J	GREENE	082
Busse, Paul	ST. LOUIS METROP.	190
Bussmann, Carl E	ST. LOUIS METROP.	190
Bussmann, Donald W	ST. LOUIS METROP.	190
Bussmann, Donald W Jr	GREENE	082
Bussmann, Yvonne L	GREENE	082
Butcher, Harvey R	ST. LOUIS METROP.	190
Butcher, Robert W	METRO MED-GREATER KC	098
Butin, Richard E	METRO MED-GREATER KC	098
Butler, Elza F	BUCHANAN	030
Butner, Michael R	SALINE	198
Butsch, Richard H	ST. LOUIS METROP.	190
Butt, Atta U	METRO MED-GREATER KC	098
Butt, James H	BOONE	026
Butterfield, Mari Anne	METRO MED-GREATER KC	098
Butterworth, Nelson S	METRO MED-GREATER KC	098
Butts, James D	MID-MISSOURI	135
Byars, Steven R	METRO MED-GREATER KC	098
Byer, Amy J	ST CHARLES-LINCOLN	189
Byer, John A	BOONE	026
Byland, Saml J	MONTGOMERY	146
Bynum, Wm R	BOONE	026
Byrum, Fritz A	ST. LOUIS METROP.	190

C

Cabal, Edito	ST. LOUIS METROP.	190
Cabal, Maria	ST. LOUIS METROP.	190
Cabanas, Justo J	METRO MED-GREATER KC	098
Cabbabe, Edmond B	ST. LOUIS METROP.	190
Cabral, Galileu	ST. LOUIS METROP.	190
Cabrera, Tomas V	ST CHARLES-LINCOLN	189
Caciolo, Carlo P	ST. LOUIS METROP.	190
Cacioppo, Jos E	ST. LOUIS METROP.	190
Cadice, John B	ST. LOUIS METROP.	190
Cady, Roger K	GREENE	082
Caffrey, Raymond J	METRO MED-GREATER KC	098
Cain, Alvin R	BARTON	018
Cajili, Antonio T	ST. LOUIS METROP.	190
Caldwell, Fred	B-W-R-C	034
Caldwell, John K	METRO MED-GREATER KC	098
Caldwell, Joseph L	GREENE	082
Calhoun, Kirk A	METRO MED-GREATER KC	098
Calhoun, Terry L	CLAY-PLATTE	050
Callaghan, Gerard M	ST. LOUIS METROP.	190
Callahan, Donald E	ST. LOUIS METROP.	190
Callahan, Jos D	ST. LOUIS METROP.	190
Callaway, Guy D Jr	GREENE	082
Callaway, Jo J	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Callaway, Lawrence A	METRO MED-GREATER KC	098
Callenbach, John C	METRO MED-GREATER KC	098
Calodney, Martin M	ST. LOUIS METROP.	190
Calovich, Emery R	METRO MED-GREATER KC	098
*Cameron, Roger W	COLE	058
Camp, Richard V	B-W-R-C	034
Campbell, Albert J	PETTIS	178
Campbell, Daniel C	OZARKS	166
Campbell, Edward O	CAPE GIRARDEAU	042
Campbell, Frederick B	METRO MED-GREATER KC	098
Campbell, J. William	ST. LOUIS METROP.	190
Campbell, James W	SEMO	202
Campbell, James E	C-M-M-R	046
Campbell, John G	METRO MED-GREATER KC	098
Campos, Francisco J	ST. LOUIS METROP.	190
Canaan, Saml A	ST. LOUIS METROP.	190
Canale, John F	ST CHARLES-LINCOLN	189
Cancelada, Juan	MINERAL AREA	138
Canent, Ramon V	METRO MED-GREATER KC	098
Canlas, Mario P	GREENE	082
Cannon, Edward M	ST. LOUIS METROP.	190
Cannon, Richard E	ST CHARLES-LINCOLN	189
Canoy, Nestor R	BOONE	026
Cantor, Harvey E	ST. LOUIS METROP.	190
*Cantor, Sol F	ST. LOUIS METROP.	190
Canty, Eugene J	ST CHARLES-LINCOLN	189
Capapas-Waxelman, L R	ST. LOUIS METROP.	190
Caplin, David A	ST. LOUIS METROP.	190
Capps, Eugene C	METRO MED-GREATER KC	098
Carden, Juan O	ST. LOUIS METROP.	190
Carleton, Chas E	MINERAL AREA	138
Carlin, Albert L	NORTHWEST	158
Carlin, M R	ST. LOUIS METROP.	190
Carls, Garry L	ST. LOUIS METROP.	190
Carlson, Arne E	ST. LOUIS METROP.	190
Carlson, Elmer C	B-W-R-C	034
Carlson, Hjalmar E	METRO MED-GREATER KC	098
Carlson, John V	AUDRAIN	014
Carlton, Lynn N	GREENE	082
Carmichael, Kim A	ST. LOUIS METROP.	190
Carmignani, Sharon	BOONE	026
Carmody, John P	ST. LOUIS METROP.	190
Carnahan, Chas E	BOONE	026
Carnell, Billy M	O-H-P-O	066
Carnes, Victor M	JASPER	102
Carolla, Robert L	GREENE	082
Caronongan, Carmelito M	ST. LOUIS METROP.	190
Carpenter, Geo T	BUCHANAN	030
Carpenter, James L	ST CHARLES-LINCOLN	189
Carpenter, Wallace	NORTHWEST	158
Carr, George W	BOONE	026
Carr, Phillip W	GREENE	082
Carranza, Mauro J	ST. LOUIS METROP.	190
Carrier, John A	ST. LOUIS METROP.	190
Carrington, Howard W	LACLEDE	115
Carroll, Danny K	WEST CENTRAL	214
Carroll, Percy J	ST. LOUIS METROP.	190
Carroll, Thos W	BARTON	018
Carron, Oscar A	PERRY-STE GENEVIEVE	174
Carter, Edwin E	ST. LOUIS METROP.	190
Carter, James E	METRO MED-GREATER KC	098
Carter, James R	OZARKS	166
Carter, James S	BOONE	026
Carter, Robert L	JASPER	102
Carter, Ronald O	BOONE	026
Caruso, Alfred A	METRO MED-GREATER KC	098
Cary, John M	ST. LOUIS METROP.	190
Case, Mary E	ST. LOUIS METROP.	190
Case, Wm F	METRO MED-GREATER KC	098
Casement, Brian A	METRO MED-GREATER KC	098
Casey, Arthur L	ST. LOUIS METROP.	190
Casey, Edwin J	ST. LOUIS METROP.	190
Casey, Eliot C	ST. LOUIS METROP.	190
Cashier, Dwight	CLAY-PLATTE	050
Cashman, John W	METRO MED-GREATER KC	098
Cason, Elbert H	ST. LOUIS METROP.	190
Cassat, James O	F-G-W	074
Castasus, Manuel A	ST. LOUIS METROP.	190
Caster, Philip W	LACLEDE	115
Castillo, Michael E	CLAY-PLATTE	050
Castro, Juan M	ST. LOUIS METROP.	190
Catanzaro, Anthony F Jr.	ST. LOUIS METROP.	190
Catanzaro, Anthony F	ST. LOUIS METROP.	190
Catanzaro, Frank J Jr.	ST. LOUIS METROP.	190
Catanzaro, Frank J Sr.	ST. LOUIS METROP.	190
Catanzaro, Rudolph E	ST. LOUIS METROP.	190
Caughron, Michael R	METRO MED-GREATER KC	098
Ceaser, James H	GREENE	082
Ceaser, Nancy H	GREENE	082
Centner, Paul J	METRO MED-GREATER KC	098
Cento, Donald	SEMO	202
Chadaratana, Phadung	ST. LOUIS METROP.	190
Chaffin, Jerald D	TRI-LAKES	208
Chalkley, Judson I	BOONE	026
Chamberlin, John B	METRO MED-GREATER KC	098
Chamness, James T	ST. LOUIS METROP.	190
Chanasue, John A	ST. LOUIS METROP.	190
Chand, Nazar	B-W-R-C	034
Chandler, Robt A	METRO MED-GREATER KC	098
Chandra, Mahesh	METRO MED-GREATER KC	098
Chandramohan, Nanjappa	JASPER	102
Chanduwadia, Dossu J	JEFFERSON	106
Chang, Chil K	BOONE	026
Chaplin, Hugh	ST. LOUIS METROP.	190
Chapman, David W	METRO MED-GREATER KC	098
Chapman, James B	CAPE GIRARDEAU	042
Chapman, Jean A	CAPE GIRARDEAU	042
Chapman, Ramona Marie	JASPER	102
Charapata, Steven G	METRO MED-GREATER KC	098
Charette, Richard P	METRO MED-GREATER KC	098
Charles, Benj H	ST. LOUIS METROP.	190
Charles, Francois	ST. LOUIS METROP.	190
Charles, Nallathambi	JEFFERSON	106
Charnas, Raymond M	ST. LOUIS METROP.	190
Chase, Ned B	JASPER	102
Chastain, Chas W	MINERAL AREA	138
Chatkupt, Suthon	CLAY-PLATTE	050
Chaudhary, Mohammad A	METRO MED-GREATER KC	098
Chaudhuri, Sudha T	METRO MED-GREATER KC	098
Chaudhuri, Tapan K	METRO MED-GREATER KC	098
Chavala, Sudarsan	NORTHWEST	158
Chavda, Deepak	ST. LOUIS METROP.	190
Chavez, Salvador	ST. LOUIS METROP.	190
Cheek, Chas W	BOONE	026
Chehval, Michael J	ST. LOUIS METROP.	190
Chellappa, Danu	JASPER	102
Chen, James Z.W.	ST. LOUIS METROP.	190
Cheng, Jesse W	BOONE	026
Cheng, Tuan Chou	DUNKLIN	070
Chern, Mou S	SOUTH CENTRAL	206
Chernoff, Selbert G	METRO MED-GREATER KC	098
Chesney, George W	JASPER	102
Cheuk, Shu-Sum	ST. LOUIS METROP.	190
Childs, Donnalea S	METRO MED-GREATER KC	098
Childs, Richard M	METRO MED-GREATER KC	098
Chinsky, Murray	ST. LOUIS METROP.	190
Chintapalli, Rajeswari R	ST. LOUIS METROP.	190
Chipongian, Paul A	ST. LOUIS METROP.	190
Chirino, Octavio R	ST. LOUIS METROP.	190
Chishti, M. Ishaq	ST. LOUIS METROP.	190
Chiu, Tai Mao	ST. LOUIS METROP.	190
Cho, Kyu S	ST. LOUIS METROP.	190
Choi, Sae R	ST. LOUIS METROP.	190
Choi, Sei Young	ST CHARLES-LINCOLN	189
Chou, Yen Ping	ST. LOUIS METROP.	190
Choudhury, M. Hasan	SOUTH CENTRAL	206
Chouinard, Michael P	SEMO	202
Christ, Martin H	BUCHANAN	030
Christensen, Harold L	GREENE	082
Christiansen, Sidney G	BUCHANAN	030
Christiansen, Stephen D	GREENE	082
Christianson, Chas S	OZARKS	166
Christy, John P	B-W-R-C	034
Christy, Raymond A	GREENE	082
Christy, Richard R	GREENE	082
Chu, Fred C	ST. LOUIS METROP.	190
Chua, Steven	ST. LOUIS METROP.	190
Chun, Chung S	METRO MED-GREATER KC	098
Chung, Kap Eun	ST. LOUIS METROP.	190
Chung, Richard T	METRO MED-GREATER KC	098
Chung, T. David	B-W-R-C	034
Churchill, Stephen W	METRO MED-GREATER KC	098
Chusak, Richard B	ST. LOUIS METROP.	190
Ciapciak, Stanley J	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Cibis, Gerhard W	METRO MED-GREATER KC	098
Clark, David J	CAPE GIRARDEAU	042
Clark, Frank I	BOONE	026
Clark, Granville E	METRO MED-GREATER KC	098
Clark, Irving H	METRO MED-GREATER KC	098
Clark, Larry K	JASPER	102
Clark, Michael L	F-G-W	074
Clarke, Michael J	GREENE	082
Clarke, Michael S	GREENE	082
Clarkston, Wendell	METRO MED-GREATER KC	098
Clary, Wm F	GREENE	082
Claseman, Wilma W	ST. LOUIS METROP.	190
Claycomb, Gerald K	ST. LOUIS METROP.	190
Clayton, Edgar L	GREENE	082
Clemens, Robert M	PETTIS	178
Clement, Richard W	ST. LOUIS METROP.	190
Clendenin, William W	ST. LOUIS METROP.	190
Clever, Henry W	ST CHARLES-LINCOLN	189
Clever, Victor G	ST CHARLES-LINCOLN	189
Cline, Daniel M	METRO MED-GREATER KC	098
Cline, Merle A	METRO MED-GREATER KC	098
Clisham, John F	NORTHEAST	150
Cloogman, Howard M	METRO MED-GREATER KC	098
Clothier, Robt W	METRO MED-GREATER KC	098
Clough, Chas A	METRO MED-GREATER KC	098
Clouse, John W	GREENE	082
Coates, James G	ST. LOUIS METROP.	190
Cobb, Milton L	ST. LOUIS METROP.	190
Coben, Lawrence A	ST. LOUIS METROP.	190
Coburn, Donald F	METRO MED-GREATER KC	098
Cochran, Donald Q	BOONE	026
Cochran, Thos E	GREENE	082
Cockerell, Charles F	METRO MED-GREATER KC	098
Cockerell, Sanford F	METRO MED-GREATER KC	098
Coffee, Amos L	SOUTH CENTRAL	206
*Cohen, Donald L	METRO MED-GREATER KC	098
Cohen, Edward	ST. LOUIS METROP.	190
Cohen, Frank	ST. LOUIS METROP.	190
Cohen, Harry B	AUDRAIN	014
Cohen, Harry K	METRO MED-GREATER KC	098
Cohen, Hillard K	ST. LOUIS METROP.	190
Cohen, Joel N	METRO MED-GREATER KC	098
Cohen, Lawrence S	METRO MED-GREATER KC	098
Cohen, Marvin C	METRO MED-GREATER KC	098
*Cohen, Raymond F	ST. LOUIS METROP.	190
Cohen, Robert S	ST. LOUIS METROP.	190
Cohle, Richard R	JASPER	102
Cohrs, Clarence C	C-M-M-R	046
Cokingtin, Diana L	METRO MED-GREATER KC	098
Cokingtin, Leovigildo C	METRO MED-GREATER KC	098
Cokrhame, Jack	ST. LOUIS METROP.	190
Colbert, Robt S	SEMO	202
Cole, Donald E	D-H-P-D	066
Cole, Harry O	ST. LOUIS METROP.	190
Cole, Sherman W	METRO MED-GREATER KC	098
Cole, Wm R	PETTIS	178
Colglazier, Mary C	METRO MED-GREATER KC	098
Collier, Robert E	METRO MED-GREATER KC	098
Collins, Douglass D	GREENE	082
Collins, Gretchen D	C-M-M-R	046
Collins, John W	METRO MED-GREATER KC	098
Collins, John M	ST. LOUIS METROP.	190
Collison, R Michael	GREENE	082
Colom, Geo A	METRO MED-GREATER KC	098
Colosi, Nicholas J	ST. LOUIS METROP.	190
Colter, Kim D	F-G-W	074
Colwill, Jack M	BOONE	026
Comas, Manuel R	ST. LOUIS METROP.	190
*Combs, Marvin D	NORTHWEST	158
Comeau, Richard J	SEMO	202
Comens, Ruth C	ST. LOUIS METROP.	190
Comer, Julian R	NORTHEAST	150
Comfort, Geo D	AUDRAIN	014
Commerford, John F	ST CHARLES-LINCOLN	189
Conant, James F	BUCHANAN	030
Conde, Gary A	JASPER	102
Cone, Wm D	SOUTH CENTRAL	206
Conn, Robt D	METRO MED-GREATER KC	098
Connelly, Michael W	ST CHARLES-LINCOLN	189
Conner, W. Edwin	METRO MED-GREATER KC	098
Connors, John P	ST. LOUIS METROP.	190
Connors, Robert H	ST. LOUIS METROP.	190
Conoyer, J. Michael	ST CHARLES-LINCOLN	189
Conrad, Jos A	GRAND RIVER	078
Conrad, Marshall B	ST. LOUIS METROP.	190
Conrad, Raymond C	GREENE	082
Conroy, James A	BUCHANAN	030
Convery, Paul E	ST. LOUIS METROP.	190
Conway, Robert R	BOONE	026
Cook, James R	GREENE	082
Cook, Jerry W	CLAY-PLATTE	050
Cook, Katherine S	MID-MISSOURI	135
Cook, Marvin	ST. LOUIS METROP.	190
Cook, Thos B	LAFAYETTE-RAY	118
Cooksey, Jon D	ST. LOUIS METROP.	190
Cooper, Barry J	ST. LOUIS METROP.	190
Cooper, Barry R	CLAY-PLATTE	050
Cooper, C Wesley	GREENE	082
Cooper, Chas W II	COLE	058
Cooper, Gary D	CLAY-PLATTE	050
Cooper, James F	ST. LOUIS METROP.	190
Cooper, Robt L	JOHNSON	110
Cooper, Robt L II	JOHNSON	110
Cooper, Theodore	ST. LOUIS METROP.	190
Cooper, Thomas J	CALLAWAY	038
Cooper, Thomas J	ST. LOUIS METROP.	190
Cooperstock, Michael S	BOONE	026
Coordes, Cordie C	ST. LOUIS.METROP.	190
Cope, James C	BOONE	026
Cope, Jos S	LAFAYETTE-RAY	118
Copp, Ralph	ST. LOUIS METROP.	190
Coppinger, Thos A	METRO MED-GREATER KC	098
Corcoran, Francis H	JASPER	102
Corday, Robt J	ST. LOUIS METROP.	190
Cordell, Larry D	METRO MED-GREATER KC	098
Corder, James C	ST. LOUIS METROP.	190
Corder, Robt L	BUCHANAN	030
Cordonnier, James K	GREENE	082
Coronado, Mario A	ST. LOUIS METROP.	190
Corrado, Joseph A	AUDRAIN	014
Corry, Francis M	GREENE	082
Corry, James M	ST. LOUIS METROP.	190
Cortez, Edwin A	METRO MED-GREATER KC	098
Cortner, Mary C	METRO MED-GREATER KC	098
Corvalan, Juan C	ST. LOUIS METROP.	190
Corvin, George J	JOHNSON	110
Corwin, Kenneth D	ST. LOUIS METROP.	190
Coscia, Robert L	GREENE	082
Costello, Jos P	ST. LOUIS METROP.	190
Costen, William S	ST. LOUIS METROP.	190
Costigan, David J	ST. LOUIS METROP.	190
Costin, Jimmy L	B-W-R-C	034
Cotner, Mark S	JASPER	102
Cotton, Thos R	METRO MED-GREATER KC	098
Couchonnal, Guillermo	METRO MED-GREATER KC	098
Coulson, Forest H	CAPE GIRARDEAU	042
Coulter, James W	GREENE	082
Couper, Nicholas B	BOONE	026
*Courter, Gary M	LACLEDE	115
Courter, Larry P	COLE	058
Covert, Richard A	ST. LOUIS METROP.	190
Cowan, Geo A	METRO MED-GREATER KC	098
Cowan, John H	METRO MED-GREATER KC	098
Cox, Curtis S	COLE	058
Cox, James L	ST. LOUIS METROP.	190
Cox, John P	BUCHANAN	030
Cox, Kenneth E	METRO MED-GREATER KC	098
Cox, Mary E	ST. LOUIS METROP.	190
Cox, Wm A	COLE	058
Coxe, Wm S	ST. LOUIS METROP.	190
Coyne, Patrick M	ST. LOUIS METROP.	190
Cozart, Duane E	ST. LOUIS METROP.	190
Cozean, Charles H	CAPE GIRARDEAU	042
Crabb, Jeremiah E	BUCHANAN	030
Crabtree, Jay B	D-H-P-D	066
Cradock, Thomas V	ST. LOUIS METROP.	190
Craemer, Chris W	METRO MED-GREATER KC	098
*Craft, Charles W	PEMISCOT	170
Craits, David	ST. LOUIS METROP.	190
Craig, Alan G	ST. LOUIS METROP.	190
Craig, Irwin T	JASPER	102
Craig, Richard O	BUCHANAN	030
Craighead, Michael L	COLE	058
Crain, James W	TRI-LAKES	208

---

* Doctor of osteopathy.

Cramer, Quentin	METRO MED-GREATER KC	098
Crane, John B	F-G-W	074
Cravens, William P	CALLAWAY	038
Craver, Jeffrey L	ST. LOUIS METROP.	190
Crawford, Katherine J	ST. LOUIS METROP.	190
Crawford, Oral B	GREENE	082
Crayton, Billy G	LAFAYETTE-RAY	118
Creech, Fred T	AUDRAIN	014
Crepps, Louis F	ST. LOUIS METROP.	190
Crespin, Stephen R	ST. LOUIS METROP.	190
Crighton, John C	GREENE	082
Criscione, James R	ST. LOUIS METROP.	190
Criscione, James R Sr.	ST. LOUIS METROP.	190
Criscione, James S	ST. LOUIS METROP.	190
Crispell, Lawrence S	JASPER	102
Critchlow, J. Thomas	AUDRAIN	014
Critchlow, Michael E	SEMO	202
Critchlow, Wm C	SEMO	202
Crockett, James E	METRO MED-GREATER KC	098
Cronemeyer, Richard L	METRO MED-GREATER KC	098
Crosby, William H	JASPER	102
Cross, Albert D	GRAND RIVER	078
Crosthwait, Edward L	GREENE	082
Crotty, John P	ST. LOUIS METROP.	190
Crouch, John A	BOONE	026
Crouch, Thos T	METRO MED-GREATER KC	098
Croughan, Jack L	ST. LOUIS METROP.	190
Crow, Martin L	METRO MED-GREATER KC	098
Crowe, John T	CAPE GIRARDEAU	042
Crowley, Wm J	BOONE	026
Crumpacker, Margaret	ST. LOUIS METROP.	190
Cruz, Eligio C	ST. LOUIS METROP.	190
Cruz, Sergio G	OZARKS	166
Csaki, Bela	METRO MED-GREATER KC	098
Cubillo, Enrique	ST. LOUIS METROP.	190
Cuddihee, Robert E	ST. LOUIS METROP.	190
Cuento, Oblendo A	ST. LOUIS METROP.	190
Cullen, John W	METRO MED-GREATER KC	098
Cullum, Albert G	ST. LOUIS METROP.	190
Cundiff, H. Clay	CAPE GIRARDEAU	042
Cunningham, D. Dean	GREENE	082
Cunningham, Edwin J	ST. LOUIS METROP.	190
Cunningham, Milamari A	BOONE	026
Cunningham, Richard D	GREENE	082
Cunningham, William F	GREENE	082
Cupp, Gerald V	BOONE	026
Cupples, Tommy E	CAPE GIRARDEAU	042
Curnow, Richard B	CLAY-PLATTE	050
Curran, M D	METRO MED-GREATER KC	098
Curran, Terrence	METRO MED-GREATER KC	098
Curry, Michael D	BOONE	026
Curry, Michael J	ST CHARLES-LINCOLN	189
Curry, Stephan R	GREENE	082
Curtis, Jack J	BOONE	026
Curts, Calvin J	METRO MED-GREATER KC	098
Custer, Philip L	ST. LOUIS METROP.	190
Cusumano, Joseph V	ST. LOUIS METROP.	190
Cusworth, Robert	ST CHARLES-LINCOLN	189
Cutcliff, Danl J	METRO MED-GREATER KC	098
Cutler, Harold M	ST. LOUIS METROP.	190
Cygan, Ronald W	METRO MED-GREATER KC	098
Cyriac, George K	AUDRAIN	014
Czebrinski, Edward W	ST. LOUIS METROP.	190

D

D'Souza, Benedict	ST. LOUIS METROP.	190
D'Souza, Saroj N	ST. LOUIS METROP.	190
Daake, John W Sr.	ST. LOUIS METROP.	190
Dabbs, Wilbur D	OZARKS	166
Dagartzikas, A K	ST. LOUIS METROP.	190
*Dagen, Daniel L	JASPER	102
Dahl, David C	METRO MED-GREATER KC	098
Dahm, Chas H Jr.	ST. LOUIS METROP.	190
Daily, Donna K	METRO MED-GREATER KC	098
Daily, James M	GREENE	082
Daley, Frank R	GRAND RIVER	078
Dalgleish, Frederick A	C-M-M-R	046
Dalton, Arthur R	ST. LOUIS METROP.	190
Dalton, Timothy T	METRO MED-GREATER KC	098
Dames, Richard J III	ST. LOUIS METROP.	190
Damron, Edward O	ST CHARLES-LINCOLN	189
Dandamudi, Babu R	ST. LOUIS METROP.	190
Dandridge, Walter C	JASPER	102
Danforth, Wm H	ST. LOUIS METROP.	190
Dang, Robert C	WEST CENTRAL	214
Daniels, John S	ST. LOUIS METROP.	190
Danielsson, Ernst P	GREENE	082
Danis, Richard K	ST. LOUIS METROP.	190
Dankner, Arnold	ST. LOUIS METROP.	190
Dankner, Rand E	ST. LOUIS METROP.	190
Darnell, Dale E	METRO MED-GREATER KC	098
Darnell, Thos F	BOONE	026
Das, Arabinda	ST. LOUIS METROP.	190
Dash, Ira	ST. LOUIS METROP.	190
Dash, Udaya N	ST. LOUIS METROP.	190
Dasovich, Judith A	C-M-M-R	046
Datta, Narendar K	MINERAL AREA	138
Daum, Harold F	PETTIS	178
Daut, Donald W	AUDRAIN	014
Davault, Geo K	LAFAYETTE-RAY	118
Davidner, Mark L	METRO MED-GREATER KC	098
Davidson, John A	ST. LOUIS METROP.	190
Davidson, Kendrick C	METRO MED-GREATER KC	098
Davidson, Morris	ST. LOUIS METROP.	190
Davis, Alexander C	METRO MED-GREATER KC	098
Davis, Alfred W Jr.	METRO MED-GREATER KC	098
Davis, Carl S	METRO MED-GREATER KC	098
Davis, Charles S	JASPER	102
Davis, David F III	ST. LOUIS METROP.	190
Davis, Donald R	METRO MED-GREATER KC	098
Davis, Gene L	ST. LOUIS METROP.	190
Davis, Herbert V	METRO MED-GREATER KC	098
Davis, Jack M	METRO MED-GREATER KC	098
Davis, John M	METRO MED-GREATER KC	098
*Davis, Larry E	CLAY-PLATTE	050
Davis, Leonard L	AUDRAIN	014
Davis, Marlou D	ST. LOUIS METROP.	190
Davis, Martin W	ST. LOUIS METROP.	190
Davis, Mary A	ST. LOUIS METROP.	190
Davis, Michael H	GREENE	082
Davis, Ray S	ST. LOUIS METROP.	190
Davis, Sheldon	ST. LOUIS METROP.	190
Davis, Thomas N	MINERAL AREA	138
Davis, Thomas P III	GREENE	082
Davis, W B	METRO MED-GREATER KC	098
Davis, Wm E	BOONE	026
Davisson, Walter F	COLE	058
Dawson, Jane L	NORTHWEST	158
Dawson, Patrick S	NORTHWEST	158
Day, Chester L	METRO MED-GREATER KC	098
Day, Romney M	BUCHANAN	030
Dean, Francis D	HOWARD	094
*Dean, Joel M	JASPER	102
Dean, Walter E	NORTHWEST	158
Deane, Louis V Jr.	ST. LOUIS METROP.	190
Deardeuff, Dwight L	MID-MISSOURI	135
Debnam, James W Jr.	ST. LOUIS METROP.	190
Deboard, James W	MID-MISSOURI	135
Decanini, Mario	BUCHANAN	030
Deckard, Shelby W	GREENE	082
Deckert, James J	ST. LOUIS METROP.	190
Deeken, James H	METRO MED-GREATER KC	098
Deeths, Tony M	ST. LOUIS METROP.	190
*Deffenbaugh, Larry D	JASPER	102
Dehner, Jonathan D	ST. LOUIS METROP.	190
Deitchman, Robt B	ST. LOUIS METROP.	190
Del Muro, Francisco	CLAY-PLATTE	050
Del Pizzo, Ferdinand	ST CHARLES-LINCOLN	189
Del Rosario, Horacio O	ST. LOUIS METROP.	190
Del Valle, Fernando	ST. LOUIS METROP.	190
*Delaney, Adrain J	METRO MED-GREATER KC	098
Delcambre, Marie A	METRO MED-GREATER KC	098
Delcau, Carey M	ST. LOUIS METROP.	190
Deleste, Carlos J	JEFFERSON	106
Deligeorges, John	CLAY-PLATTE	050
Delwood, Don M	BOONE	026
Dembinski, David R	METRO MED-GREATER KC	098
Dement, Oman E	JASPER	102
Dempsey, Herbert A	METRO MED-GREATER KC	098
Denes, Bela	ST. LOUIS METROP.	190
Denk, Alan F	ST. LOUIS METROP.	190
Denner, Lee J	METRO MED-GREATER KC	098
Denninghoff, James S	BOONE	026

---

* Doctor of osteopathy

Denninghoff, James C	BOONE	026
Dennis, Wm P	MINERAL AREA	138
Dennison, Carl F	ST. LOUIS METROP.	190
Dent, George W	MINERAL AREA	138
Denton, John L	COLE	058
Deshpande, V	ST. LOUIS METROP.	190
Destouet, Judy	ST. LOUIS METROP.	190
Dettmer, Robt F	MINERAL AREA	138
Deutch, Max	ST. LOUIS METROP.	190
Devabhaktuni, Rama Devi	ST. LOUIS METROP.	190
Dever, Robert L	B-W-R-C	034
Devine, John B	ST. LOUIS METROP.	190
Devine, Mark W	CLAY-PLATTE	050
Devineni, V. Rao	ST. LOUIS METROP.	190
Devins, George S	METRO MED-GREATER KC	098
Devkota, Jagadishwar	BOONE	026
Dew, Thomas A	ST. LOUIS METROP.	190
Dewald, Paul A	ST. LOUIS METROP.	190
Dewein, Edward G	ST. LOUIS METROP.	190
Dexheimer, Frank R	BOONE	026
Dexter, J Kent	GREENE	082
Dexter, James D	BOONE	026
DeCastro, Fernando J	ST. LOUIS METROP.	190
DeFelice, Charles E	CAPE GIRARDEAU	042
DeFeo, Frederick G	METRO MED-GREATER KC	098
DeFeo, Theodore C	METRO MED-GREATER KC	098
DeGenova, Gerard H	PERRY-STE GENEVIEVE	174
DeGuerre, Ronald K	ST. LOUIS METROP.	190
DeLeon, Romualdo V	ST. LOUIS METROP.	190
DeMarchena, Octavio	ST. LOUIS METROP.	190
DeMott, John D	METRO MED-GREATER KC	098
DeMotte, Jeanne M	LAFAYETTE-RAY	118
DeSilva, Ananda	ST. LOUIS METROP.	190
DeSpain, John D	BOONE	026
DeTar, Burleigh E	JASPER	102
DeUngria, Pablo C	ST. LOUIS METROP.	190
DeVera, Anson E	ST. LOUIS METROP.	190
Dharmay, Roland S	CALLAWAY	038
Dias, Wenceslaus P	D-H-P-D	066
Dick, Earl	ST. LOUIS METROP.	190
Dick, Mary M	ST. LOUIS METROP.	190
Dickerson, William J	LAKE OF THE OZARKS	120
Dickler, Donald J	ST. LOUIS METROP.	190
Diehl, Antoni M	METRO MED-GREATER KC	098
Diehr, Maurice A	ST. LOUIS METROP.	190
Diemer, Peter A	ST. LOUIS METROP.	190
Dierberg, Dale F	F-G-W	074
Dierker, Harry D	MINERAL AREA	138
Diestelhorst, James A	ST. LOUIS METROP.	190
Dieterich, Russell	ST CHARLES-LINCOLN	189
Dill-Bergmann, Debra A	CLAY-PLATTE	050
Dillard, Burl M	ST. LOUIS METROP.	190
Dillard, Erin M	GREENE	082
Dills, Jos N	GREENE	082
Dimayuga, Nestor G	SOUTH CENTRAL	206
Dinkins, James A	CAPE GIRARDEAU	042
Ditmore, Q Michael	BOONE	026
Dix, Jay D	BOONE	026
Dixon, Geo D	METRO MED-GREATER KC	098
Dixon, Herbert K	JASPER	102
Dixon, John R	GRAND RIVER	078
Dixon, William D	METRO MED-GREATER KC	098
Dizney, Desmion M	NORTHWEST	158
DiCecco, Charles J	ST. LOUIS METROP.	190
DiFilippo, Emil A	ST CHARLES-LINCOLN	189
DiLeo, Senatro W	ST. LOUIS METROP.	190
DiPasco, Donald J	ST. LOUIS METROP.	190
Dlabal, Luke J Jr.	METRO MED-GREATER KC	098
Dlabal, Luke J Sr.	METRO MED-GREATER KC	098
Dmytryk, Eugene T	ST. LOUIS METROP.	190
Dodge, Philip R	ST. LOUIS METROP.	190
Doerhoff, Adelia L	COLE	058
Doerhoff, Alan R	COLE	058
Doerhoff, Carl R	COLE	058
Doering, Robt W	METRO MED-GREATER KC	098
Doerr, Dale E	ST. LOUIS METROP.	190
Doherty, Daniel W	SOUTH CENTRAL	206
Dohrn-Weisman, Renate	ST. LOUIS METROP.	190
Doisy, Philip P	ST. LOUIS METROP.	190
Doisy, Robt A	ST. LOUIS METROP.	190
Dolan, John T Jr.	ST. LOUIS METROP.	190
Dolan, Patrick H	ST. LOUIS METROP.	190
Dolan, Renee C	ST. LOUIS METROP.	190
Dolan, Stephen A	BOONE	026
Domann, Darrel D	GREENE	082
Domke, Henry F	COLE	058
Donahoe, James L	ST. LOUIS METROP.	190
Donaldson, Robt C	ST. LOUIS METROP.	190
Donati, Robt M	ST. LOUIS METROP.	190
Donley, Leo F	ST. LOUIS METROP.	190
Donley, Robt R	OZARKS	166
Donnell, Harold E	JEFFERSON	106
Donnell, Robt H	JEFFERSON	106
Donnell, William S Jr	D-H-P-D	066
Donohoe, Charles D	METRO MED-GREATER KC	098
Donovan, John F	ST. LOUIS METROP.	190
Donovan, Thos J	ST. LOUIS METROP.	190
Doody, Dian L	JASPER	102
Doody, Patrick T	JASPER	102
Dooley, Joseph M Jr.	ST. LOUIS METROP.	190
Dooley, Thomas W	BOONE	026
Doroghazi, Robert M	BOONE	026
Dorsch, Ervin H	METRO MED-GREATER KC	098
Dorton, Robt K	ST. LOUIS METROP.	190
Dorzab, William E	METRO MED-GREATER KC	098
Dougherty, Charles H	ST. LOUIS METROP.	190
Dowell, Geo H	ST. LOUIS METROP.	190
Dowell, J Larry	GREENE	082
Downey, James W	METRO MED-GREATER KC	098
Downey, Jon P	CAPE GIRARDEAU	042
Downs, Daniel M	METRO MED-GREATER KC	098
Doyle, Chas R	ST. LOUIS METROP.	190
Drace, Charles C Jr.	ST. LOUIS METROP.	190
Drake, Avery A	MID-MISSOURI	135
Drake, Roy F	METRO MED-GREATER KC	098
Drake, William L Jr.	ST. LOUIS METROP.	190
Draney, Thos E	METRO MED-GREATER KC	098
Draper, Bernard L	MID-MISSOURI	135
Dreher, Richard L	METRO MED-GREATER KC	098
Drescher, Emmett B	ST. LOUIS METROP.	190
Drews, Robt C	ST. LOUIS METROP.	190
Drey, Norman W	ST. LOUIS METROP.	190
Dreyer, Carl J	ST. LOUIS METROP.	190
Dreyer, Philip V	C-M-M-R	046
Dreyer, Wm F	SOUTH CENTRAL	206
Drisko, Robert M	METRO MED-GREATER KC	098
Drisko, Robert M II	METRO MED-GREATER KC	098
Drowns, Bruce V	METRO MED-GREATER KC	098
Drozda, Joseph P Jr.	ST. LOUIS METROP.	190
Druck, Norman S	ST. LOUIS METROP.	190
Druet, Robert L	GREENE	082
Dua, Prem N	MINERAL AREA	138
Dubin, Sol H	METRO MED-GREATER KC	098
Dubuque, Theodore J Jr.	ST. LOUIS METROP.	190
Dueker, David K	BOONE	026
Duello, Deborah K	METRO MED-GREATER KC	098
Duemler, Robt H	ST. LOUIS METROP.	190
Duensing, George F	GREENE	082
Duer, Mildred C	METRO MED-GREATER KC	098
Duerksen, Joseph J	METRO MED-GREATER KC	098
Duff, James E	GREENE	082
Duff, John A	C-M-M-R	046
Duff, William M	SOUTH CENTRAL	206
Duffy, Francis G	ST. LOUIS METROP.	190
Duffy, Oliver F	GRAND RIVER	078
Duggan, Eileen D	METRO MED-GREATER KC	098
Duggan, John J Jr.	ST. LOUIS METROP.	190
Dugger, David E	ST. LOUIS METROP.	190
Dukstein, Walter G Jr.	METRO MED-GREATER KC	098
Duling, Gerald J	ST CHARLES-LINCOLN	189
Dumadag, Virgilio P	ST. LOUIS METROP.	190
Duncan, David T	ST CHARLES-LINCOLN	189
Duncan, Douglas M	GREENE	082
Duncan, Robt D	GREENE	082
Duncan, Wm H	METRO MED-GREATER KC	098
Dundee, John T	NORTHWEST	158
Dunlap, Michael D	BUCHANAN	030
Dunn, Robert C Jr.	ST. LOUIS METROP.	190
Dunshee, Robt E	NORTHWEST	158
Duong, Mo Hong	BOONE	026
Durbin, Patrick H	ST. LOUIS METROP.	190
Durel, Justin H	ST. LOUIS METROP.	190
Durie, Robt H	METRO MED-GREATER KC	098
Durnell, Monaford D	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Durr, Jon W	ST. LOUIS METROP.	190
Dusek, Dennis A	ST. LOUIS METROP.	190
DuMont, Clement C	BUCHANAN	030
DuMontier, Alan J	ST. LOUIS METROP.	190
DuMontier, Rene J	ST CHARLES-LINCOLN	189
Dwyer, Frank X	METRO MED-GREATER KC	098
Dyer, Curtis W	JOHNSON	110
Dyer, Dallas J	ST. LOUIS METROP.	190
Dyer, Gary A	BUCHANAN	030
*Dykstra, John S	CLAY-PLATTE	050
DyRagos, Ramon R	CLAY-PLATTE	050
Dzundzev, Penco T	ST. LOUIS METROP.	190
Dzur, James R	CAPE GIRARDEAU	042

E

Eachempati, Rama G	ST. LOUIS METROP.	190
Eachempati, Uma R	ST. LOUIS METROP.	190
Eades, Jos W	ST. LOUIS METROP.	190
Earls, Jim H	GREENE	082
Early, Gerald L	METRO MED-GREATER KC	098
Early, James H	BOONE	026
Earnest, James B	METRO MED-GREATER KC	098
Easterday, Jerry L	BOONE	026
Eaton, Paula	METRO MED-GREATER KC	098
Ebel, Eugene H	ST. LOUIS METROP.	190
Eberle, Vincent L	ST. LOUIS METROP.	190
Eck, Birkle	ST. LOUIS METROP.	190
Ecker, Desider B	ST. LOUIS METROP.	190
Eckert, Clarence T	ST. LOUIS METROP.	190
*Eckstein, Tim E	PERRY-STE GENEVIEVE	174
Edele, Eugene H	ST. LOUIS METROP.	190
Edelman, Alan H	ST. LOUIS METROP.	190
Edes, Thomas E	BOONE	026
Ediger, Mark A	WEST CENTRAL	214
*Ediger, Sandra K	METRO MED-GREATER KC	098
Edmisten, Jack	METRO MED-GREATER KC	098
Edmonds, Robt W	PETTIS	178
Edwards, David R	PETTIS	178
Edwards, James E	ST. LOUIS METROP.	190
Edwards, Jos C	ST. LOUIS METROP.	190
Edwards, Theodore F	CLAY-PLATTE	050
Egan, Robt C	ST. LOUIS METROP.	190
Egan, Thos F	ST. LOUIS METROP.	190
Egbert, Robert N	GREENE	082
Eggers, Geo W	BOONE	026
Eggleston, Donald E	C-M-M-R	046
Eggleston, Harry C	ST. LOUIS METROP.	190
Eggleston, Thos F	ST. LOUIS METROP.	190
Ehrlich, Carl F	ST. LOUIS METROP.	190
Eidelman, Jack R	ST. LOUIS METROP.	190
Eikermann, William C	METRO MED-GREATER KC	098
Eisemann, Gustave	METRO MED-GREATER KC	098
Eisen, Arthur Z	ST. LOUIS METROP.	190
Eisenmann, Benj P	F-G-W	074
Eisenmann, Jesse H	ST. LOUIS METROP.	190
Eisermann, Juergen G	ST. LOUIS METROP.	190
Ekern, H. Peter	AUDRAIN	014
Ekunno, Josiah O	ST. LOUIS METROP.	190
Elcock-Skimming, Devera M	ST. LOUIS METROP.	190
Eldenburg, Donald O	PETTIS	178
Elders, Frank A	MID-MISSOURI	135
Elias, David J	METRO MED-GREATER KC	098
Eliasson, Sven G	ST. LOUIS METROP.	190
Elkins, Robert L	METRO MED-GREATER KC	098
Elkins, Ronald F	GREENE	082
Ellegood, James H	MINERAL AREA	138
Eller, Chas H	ST. LOUIS METROP.	190
Eller, Gordon W	CAPE GIRARDEAU	042
Ellerbeck, Kathryn A	METRO MED-GREATER KC	098
Ellersieck, Dorothy M	ST. LOUIS METROP.	190
Ellfeldt, Howard J	METRO MED-GREATER KC	098
Elliott, John D	ST. LOUIS METROP.	190
Elliott, Raymond G	METRO MED-GREATER KC	098
Elliott, Wade E	METRO MED-GREATER KC	098
Ellis, David L	METRO MED-GREATER KC	098
Ellis, Francis J	GREENE	082
Ellis, Harry L	GREENE	082
Ellis, Herman M	ST. LOUIS METROP.	190
Ellis, Jean H	METRO MED-GREATER KC	098
Ellis, John C	METRO MED-GREATER KC	098
Ellsasser, James C	ST. LOUIS METROP.	190
Ellsworth, Willard	GRAND RIVER	078
Elser, Otto H	METRO MED-GREATER KC	098
Elterman, Joseph J	JEFFERSON	106
Elworth, Robert L	GREENE	082
Ely, Norman B	GREENE	082
Emeran, George J	ST. LOUIS METROP.	190
Emory, Jeffrey O	METRO MED-GREATER KC	098
Engelhardt, Robt C	B-W-R-C	034
Engelken, Michael K	NORTHWEST	158
Engelmann, Calvin E	METRO MED-GREATER KC	098
Engleman, Reinhold	METRO MED-GREATER KC	098
English, Milton T	NORTH CENTRAL	162
English, Wallace D	DUNKLIN	070
Enkvetchakul, Boonmee	GREENE	082
Enriquez, Roman S	METRO MED-GREATER KC	098
Epstein, James M	ST. LOUIS METROP.	190
Epstein, Mark L	CLAY-PLATTE	050
Ericsson, Saml E	METRO MED-GREATER KC	098
Ernst, Edwin C Jr.	ST. LOUIS METROP.	190
Ernst, Edwin C III	ST. LOUIS METROP.	190
Ernst, Jos G	ST. LOUIS METROP.	190
Ernst, Richard E	ST. LOUIS METROP.	190
Ernst, Roland P	ST. LOUIS METROP.	190
Esch, John G	JASPER	102
Escobar, Nelson G	BUCHANAN	030
Escobedo, Bolivar M	ST. LOUIS METROP.	190
Escoffery, Richard F	ST. LOUIS METROP.	190
Esparrago, F R	OZARKS	166
Esslinger, Arthur T	ST. LOUIS METROP.	190
Essmyer, Joseph K	CAPE GIRARDEAU	042
Esther, James H	ST. LOUIS METROP.	190
Esther, John R	JASPER	102
Estrem, Scott A	BOONE	026
Eto, Jackson K	ST. LOUIS METROP.	190
Ettelson, Charles D	ST. LOUIS METROP.	190
Eubank, David F	METRO MED-GREATER KC	098
Eubank, Wm Y	METRO MED-GREATER KC	098
Eugenio, Romeo R	PERRY-STE GENEVIEVE	174
Evans, Andrew L	GREENE	082
Evans, Ezra L	GREENE	082
Evans, Jos C	METRO MED-GREATER KC	098
Evans, Lawrence G Jr.	ST. LOUIS METROP.	190
Evans, Lawrence L	METRO MED-GREATER KC	098
Evens, Ronald G	ST. LOUIS METROP.	190
*Everett, James E	METRO MED-GREATER KC	098
Eversoll, Norton J	ST. LOUIS METROP.	190
Exarhou, Klark	ST. LOUIS METROP.	190
Exon, C S	COLE	058
Eynon, James R	METRO MED-GREATER KC	098

F

Fabian, Leonard W	ST. LOUIS METROP.	190
Fabito, Daniel C	ST. LOUIS METROP.	190
Fabito, Melinda A	ST. LOUIS METROP.	190
Fair, Wm L	GRAND RIVER	078
Fairchild, James F	PERRY-STE GENEVIEVE	174
Fairchild, Robt C	METRO MED-GREATER KC	098
Fajatin, Romulo J	ST CHARLES-LINCOLN	189
Fakhoury, Donald A	CLAY-PLATTE	050
Fallon, Richard H	ST. LOUIS METROP.	190
Falzone, John J	COLE	058
Farber, Barry S	GREENE	082
Farberman, Elliott	ST. LOUIS METROP.	190
Farkas, James R	PETTIS	178
Farmer, Norma D	MINERAL AREA	138
Farnham, Milo M	METRO MED-GREATER KC	098
Faron, Mark A	ST. LOUIS METROP.	190
Farrell, John S	ST. LOUIS METROP.	190
Farrell, Sammy L	F-G-W	074
Farthing, Gene W	GREENE	082
Farzana, Farida	ST. LOUIS METROP.	190
Fathman, Anthony E	ST. LOUIS METROP.	190
Favazza, Armando R	BOONE	026
Favors, Adolphus C Jr.	ST. LOUIS METROP.	190
Fedak, Michael J	ST. LOUIS METROP.	190
Fedotin, Michael S	METRO MED-GREATER KC	098
Fee, Chester F	METRO MED-GREATER KC	098
Fehlman, Bernard F	ST. LOUIS METROP.	190
Feibel, Robt M	ST. LOUIS METROP.	190
Feind, Earl E	MID-MISSOURI	135
Feit, Robert M	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Feldman, David	ST. LOUIS METROP.	190
Feldman, Mark R	ST. LOUIS METROP.	190
Feliciano, Wilfrido C	ST. LOUIS METROP.	190
Felix, Robt H	ST. LOUIS METROP.	190
Felker, C. Edward III	SEMO	202
Felker, J. Russell	CAPE GIRARDEAU	042
Feller, Harold H	ST. LOUIS METROP.	190
Fellhauer, Carl M	ST. LOUIS METROP.	190
Felt, Samuel E	METRO MED-GREATER KC	098
Felts, James A	MID-MISSOURI	135
Felts, James A	ST. LOUIS METROP.	190
Feltz, Lawrence W	PERRY-STE GENEVIEVE	174
Ferber, Alan J	METRO MED-GREATER KC	098
Ferguson, Donald S	METRO MED-GREATER KC	098
Ferguson, John L	GREENE	082
Ferguson, John F	GREENE	082
Ferguson, John P	GREENE	082
Ferguson, Robt M	JASPER	102
Ferguson, Thos B	ST. LOUIS METROP.	190
Fernandez, Fernando	BUCHANAN	030
Fernandez, Mark A	METRO MED-GREATER KC	098
Ferneau, James E	BOONE	026
Ferns, Francis E	METRO MED-GREATER KC	098
Ferrara, Robert P	ST. LOUIS METROP.	190
Ferrari, Heriberto A	BOONE	026
Ferrell, Thos E	GREENE	082
Ferrendelli, James A	ST. LOUIS METROP.	190
Ferris, Carl R	METRO MED-GREATER KC	098
Ferris, Charles W Jr.	ST. LOUIS METROP.	190
Ferris, Robert E	COLE	058
Ferry, Richard J	ST. LOUIS METROP.	190
Fibuch, Eugene E	METRO MED-GREATER KC	098
Figueroa, Edduyn	ST. LOUIS METROP.	190
Figueroa, Eliseo O	ST. LOUIS METROP.	190
Fingert, Hyman H	ST. LOUIS METROP.	190
Fink, Leroy L	ST. LOUIS METROP.	190
Fink, Roger L	GREENE	082
Finkel, Barney W	ST. LOUIS METROP.	190
Finn, Murray E	ST. LOUIS METROP.	190
Finnegan, Jos V	ST. LOUIS METROP.	190
Fiordelisi, Rocco J	ST. LOUIS METROP.	190
Fischbein, Lewis C	ST. LOUIS METROP.	190
Fischer, Edward H	CLAY-PLATTE	050
Fischer, John R	ST. LOUIS METROP.	190
Fischer, Robert	ST. LOUIS METROP.	190
Fish, Virgil O	ST. LOUIS METROP.	190
Fish, William W	CLAY-PLATTE	050
Fisher, James K	METRO MED-GREATER KC	098
Fisher, Jos L	BUCHANAN	030
Fisher, Linda	ST. LOUIS METROP.	190
Fishman, John J	ST. LOUIS METROP.	190
Fishman, Norman	ST. LOUIS METROP.	190
Fitch, Coy D	ST. LOUIS METROP.	190
Fitzgerald, Robert H	METRO MED-GREATER KC	098
Fitzsimmons, James G	METRO MED-GREATER KC	098
Fivian, Gerald J	ST. LOUIS METROP.	190
Flance, Israel J	ST. LOUIS METROP.	190
Flanders, Virgil E	CLAY-PLATTE	050
Flanigan, Geo D	ST. LOUIS METROP.	190
Flatley, John A	METRO MED-GREATER KC	098
Fleischman, Jay A	ST. LOUIS METROP.	190
Fleishman, Alfred	ST. LOUIS METROP.	190
Fleming, Allan R	METRO MED-GREATER KC	098
Fleming, David A	C-M-M-R	046
Fleming, J. Will Jr	C-M-M-R	046
Fleming, Robt J	ST CHARLES-LINCOLN	189
Fletcher, Robert C	METRO MED-GREATER KC	098
Fletes, James W	ST. LOUIS METROP.	190
Flicker, Michele R	METRO MED-GREATER KC	098
Fliesher, Edward B	ST. LOUIS METROP.	190
Florendo, Federico N	NORTHEAST	150
Florendo, Purificacion T	NORTHEAST	150
Flores, Jhonson E	ST. LOUIS METROP.	190
Flores-Vega, Carlos H	ST. LOUIS METROP.	190
Floro, Kenneth E Jr.	ST. LOUIS METROP.	190
Floro, Mariano N	ST. LOUIS METROP.	190
Flotte, Bernard H	ST. LOUIS METROP.	190
Flotte, Sylvester A	ST. LOUIS METROP.	190
Flug, Eric J	ST. LOUIS METROP.	190
Flury, Kirk E	ST. LOUIS METROP.	190
Flye, M. Wayne	ST. LOUIS METROP.	190
Flynn, Edward	ST. LOUIS METROP.	190
Flynn, James M	METRO MED-GREATER KC	098
Flynn, John T	ST. LOUIS METROP.	190
Flynn, Jos E	ST. LOUIS METROP.	190
Fogarty, William M Jr.	ST. LOUIS METROP.	190
Fogel, Steven T	METRO MED-GREATER KC	098
Fogle, Philip P	GREENE	082
Folck, Wm P	METRO MED-GREATER KC	098
Folkner, Albert L	JOHNSON	110
Foote, Daniel D	GREENE	082
Foote, Jerry E	BOONE	026
Forand, Joseph M	ST. LOUIS METROP.	190
Ford, Lee T	ST. LOUIS METROP.	190
Ford, Thomas E	ST. LOUIS METROP.	190
Foreman, Phillip B	NORTHEAST	150
Forgue, Donald R	METRO MED-GREATER KC	098
Forman, Louis H	METRO MED-GREATER KC	098
Forney, Joseph W	AUDRAIN	014
Forsman, Waldo W	ST. LOUIS METROP.	190
Forsyth, B. Todd	ST. LOUIS METROP.	190
Forsythe, Lees C	METRO MED-GREATER KC	098
Forsythe, Robt W	METRO MED-GREATER KC	098
Fortin, Don G	CLAY-PLATTE	050
Fortin, Felix D	METRO MED-GREATER KC	098
Fortin, Jorge A	MID-MISSOURI	135
Foster, R. Steve	PETTIS	178
Fotopoulos, Chris K	LAKE OF THE OZARKS	120
Fouts, Dallas B	METRO MED-GREATER KC	098
Fowler, Dennis L	METRO MED-GREATER KC	098
Fowler, Fred D	METRO MED-GREATER KC	098
Fowler, I C	CLAY-PLATTE	050
Fowler, James W	METRO MED-GREATER KC	098
Fowler, Marvin L	SOUTH CENTRAL	206
Fox, Gerald E	BUCHANAN	030
Fox, Leon J	ST. LOUIS METROP.	190
Fox, Robt E	ST. LOUIS METROP.	190
Fox, Thomas J	ST. LOUIS METROP.	190
Foy, Thomas M	JEFFERSON	106
Francis, Roger A	LAKE OF THE OZARKS	120
Francisco, Clarence B	METRO MED-GREATER KC	098
Francisco, Dominic S	ST. LOUIS METROP.	190
Frank, Bruce S	ST CHARLES-LINCOLN	189
Frank, Gael R	PETTIS	178
Franklin, Curtis U	METRO MED-GREATER KC	098
Franklin, Harold A	ST. LOUIS METROP.	190
Franklin, Max S	ST. LOUIS METROP.	190
Franks, Elliott L	METRO MED-GREATER KC	098
Frantz, David W	ST. LOUIS METROP.	190
Fraser, Danl M	ST. LOUIS METROP.	190
Fraser, Richard A	B-W-R-C	034
Frawley, Thos F	ST. LOUIS METROP.	190
Frazier, Robt L	SEMO	202
Frazier, Robt E	BOONE	026
Frederich, Michael E	ST. LOUIS METROP.	190
Frederick, Raymond O	ST. LOUIS METROP.	190
Fredrickson, John M	ST. LOUIS METROP.	190
Freedman, Ruth S	ST. LOUIS METROP.	190
Freeman, James A	BOONE	026
Freeman, Jerry C	METRO MED-GREATER KC	098
Freeman, Michael R	CAPE GIRARDEAU	042
Freiden, Floyd J	METRO MED-GREATER KC	098
Freiman, S. Michael	ST. LOUIS METROP.	190
Frein, Donald E	WEST CENTRAL	214
French, M. Devonne	METRO MED-GREATER KC	098
Friedman, Morris L	METRO MED-GREATER KC	098
Friedman, Paul L	ST. LOUIS METROP.	190
Friedman, Robt H	ST. LOUIS METROP.	190
Friedman, William H	ST. LOUIS METROP.	190
Friedrich, Anthony P	ST. LOUIS METROP.	190
Friedrich, Ernst R	ST. LOUIS METROP.	190
Fries, John W	ST. LOUIS METROP.	190
Friesen, Randall G	ST CHARLES-LINCOLN	189
Fritsch, Andrew J	JASPER	102
Fritzlen, Thos J	METRO MED-GREATER KC	098
Froehlich, Thomas W	GREENE	082
Frogge, Jim D	JASPER	102
Frumson, Guy H	ST. LOUIS METROP.	190
Fry, Robert D	ST. LOUIS METROP.	190
Fuchs, Geo J	BOONE	026
Fuhrman, Donald L	METRO MED-GREATER KC	098
Fujita, Milton T	ST. LOUIS METROP.	190
Fuleihan, Farid M	ST. LOUIS METROP.	190
Fulks, Richard B	MONITEAU	142

---

* Doctor of osteopathy

Fullgrabe, Emil A	COLE	058
Funsch, Robert E	ST. LOUIS METROP.	190
Furla, August J	ST. LOUIS METROP.	190
Furlong, Lawrence D	METRO MED-GREATER KC	098

G

Gabrawy, Laila G	ST. LOUIS METROP.	190
Gado, Mokhtar H	ST. LOUIS METROP.	190
Gador, Francisco A	METRO MED-GREATER KC	098
Gaffney, Caldwell J	ST. LOUIS METROP.	190
Gaffney, Jon W	BUCHANAN	030
Gafford, Franklin H IV	ST. LOUIS METROP.	190
Gagliardo, Joseph	ST. LOUIS METROP.	190
Gagnon, Gregory A	BOONE	026
Gaines, Albert H	METRO MED-GREATER KC	098
Gaines, Robert W	BOONE	026
Gainor, Barry J	BOONE	026
Gaitonde, Mangesh R	BOONE	026
Galakatos, Andrew E	ST. LOUIS METROP.	190
Galant, Mark R	METRO MED-GREATER KC	098
Galblum, Larry I	METRO MED-GREATER KC	098
Galbreath, Ashford M	METRO MED-GREATER KC	098
*Galdamez, John T	LAKE OF THE OZARKS	120
Gale, Arthur H	ST. LOUIS METROP.	190
Gale, Jos F	GRAND RIVER	078
Galinsky, Leon J	OZARKS	166
Gall, Ira C	ST. LOUIS METROP.	190
Gallagher, Lionel M	MONITEAU	142
Galvez, Sisenando P	GRAND RIVER	078
Gamelson, Lyndon W	GREENE	082
Gamis, Alan S	METRO MED-GREATER KC	098
Gandlmayr, Jack M	ST. LOUIS METROP.	190
Gansloser, Wilbert M	ST. LOUIS METROP.	190
Gantner, Geo E Jr.	ST. LOUIS METROP.	190
Gantz, John A	ST. LOUIS METROP.	190
Gapasin, Ernesto M	LACLEDE	115
Garcia, Angel R	BOONE	026
Garcia, Chas L	AUDRAIN	014
Garcia-Ferrer, Eduardo L	ST. LOUIS METROP.	190
Garcia-Ferrer, Eduardo A	ST. LOUIS METROP.	190
Garcia-Ferrer, Magdalena	ST. LOUIS METROP.	190
Gard, Raymond F	METRO MED-GREATER KC	098
Gardner, Joe A	JASPER	102
Gardner, Jos W	OZARKS	166
Gardner, Robert E	CAPE GIRARDEAU	042
Garfinkel, Bernard T	ST. LOUIS METROP.	190
Garfinkel, Lester S	METRO MED-GREATER KC	098
Garner, James H	METRO MED-GREATER KC	098
Garner, Royal S	COLE	058
Garrett, Glen H	BOONE	026
Garrett, Ted E	ST. LOUIS METROP.	190
Garriga, Francisco J	ST. LOUIS METROP.	190
Garrison, David L	BUCHANAN	030
Garrison, Roy F	METRO MED-GREATER KC	098
Garrison, Theodore W	LAKE OF THE OZARKS	120
Garrotto, Lewis J	BOONE	026
Garvin, Paul J	ST. LOUIS METROP.	190
Garvin, Todd J	ST. LOUIS METROP.	190
Garwood, Jan D	WEST CENTRAL	214
Gaska, Walter J	GREENE	082
Gaskin, Fred W	ST. LOUIS METROP.	190
Gaskins, John H	METRO MED-GREATER KC	098
Gaston, Samuel L	JASPER	102
Gatchalian, Felicitas Z	ST. LOUIS METROP.	190
Gauer, Robt J	CLAY-PLATTE	050
Gaughan, Rebecca N	BOONE	026
Gaunt, Wm D	BOONE	026
Gauthier, Charles P	METRO MED-GREATER KC	098
Gavankar, Sharad S	JASPER	102
Gavini, Rajendra R	ST. LOUIS METROP.	190
*Gayle, David R	B-W-R-C	034
*Gayle, Richard E	B-W-R-C	034
Gearhart, Merriam	GRAND RIVER	078
Gearhart, Wilbur H	ST. LOUIS METROP.	190
Gedney, Wm B	ST. LOUIS METROP.	190
Geha, Braham J	METRO MED-GREATER KC	098
Gehm, Louis E	WEST CENTRAL	214
Geiger, Wm A Jr.	METRO MED-GREATER KC	098
Geise, August W	ST. LOUIS METROP.	190
Geisse, Guillermo	ST. LOUIS METROP.	190
Gellman, Elliot F	ST. LOUIS METROP.	190
Gengelbach, Richard W	HOWARD	094
Gennaoui, Jad M	ST. LOUIS METROP.	190
Gentry, Jim	GREENE	082
Gentry, Marvin C	SOUTH CENTRAL	206
Gentry, Merritt L	GREENE	082
Gentry, Michael A	GREENE	082
Gentsch, Kenneth W	ST. LOUIS METROP.	190
George, Philip G	ST. LOUIS METROP.	190
George, Robert W	B-W-R-C	034
George, Theodore	LAFAYETTE-RAY	118
Geraghty, Thomas E	CLAY-PLATTE	050
Gerdes, John A	GREENE	082
Gerdes, K. Eric	GREENE	082
Gerhardt, Donald C	BOONE	026
German, Walter A	GREENE	082
Germann, Donald R	METRO MED-GREATER KC	098
Gernstetter, S L	B-W-R-C	034
Gerowin, Lance	ST. LOUIS METROP.	190
Gerst, Aloysius C	ST. LOUIS METROP.	190
Gerst, James	ST. LOUIS METROP.	190
Geter, Rodney K	GREENE	082
Geurin, James R	ST. LOUIS METROP.	190
Gholkar, Vijay R	METRO MED-GREATER KC	098
Gholson, Charles F	CAPE GIRARDEAU	042
Ghosh, Nellie	ST. LOUIS METROP.	190
Gibbons, Robt T Jr.	METRO MED-GREATER KC	098
Gibson, David M	METRO MED-GREATER KC	098
Gibson, James D	GREENE	082
Gibson, Paul H	ST. LOUIS METROP.	190
Giddings, Frank C	GREENE	082
Gieselman, Ralph V	ST. LOUIS METROP.	190
Gieselmann, James W	B-W-R-C	034
*Giffen, L E	COLE	058
Gifford, David L	AUDRAIN	014
Gifford, Phillip S	METRO MED-GREATER KC	098
Gilden, Jerome J	ST. LOUIS METROP.	190
Gill, Paul J	GREENE	082
Gillispie, Roy	TRI-LAKES	208
Gillispie, Roy Jack	TRI-LAKES	208
Gilpin, Doris C	ST. LOUIS METROP.	190
Gilula, Louis A	ST. LOUIS METROP.	190
Gimpelson, Richard J	ST. LOUIS METROP.	190
Ginardi, Donald E	METRO MED-GREATER KC	098
Ginsberg, B. William	METRO MED-GREATER KC	098
Ginsburg, Jordan H	ST. LOUIS METROP.	190
Ginther, James W Jr.	ST. LOUIS METROP.	190
Gish, E R	CALLAWAY	038
Givler, Robt L	METRO MED-GREATER KC	098
Gladney, John H	ST. LOUIS METROP.	190
Glaser, Larry F	METRO MED-GREATER KC	098
Glass, Wm J	OZARKS	166
Glasscock, Ernest L	METRO MED-GREATER KC	098
Glazer, Harvey S	ST. LOUIS METROP.	190
Glazer, Melvin L	METRO MED-GREATER KC	098
Glenn, Edward A	PIKE	186
Glenn, Theodore J	CAPE GIRARDEAU	042
Glenski, James A	METRO MED-GREATER KC	098
Glickman, Andrew S	NORTHEAST	150
Glines, Michael H	ST. LOUIS METROP.	190
Glogovac, S. Vic	ST. LOUIS METROP.	190
Glover, David	JOHNSON	110
Glover, Jack F	GREENE	082
Glover, Kenneth	OZARKS	166
Glueck, Robert M	METRO MED-GREATER KC	098
Gnade, Albert J	ST. LOUIS METROP.	190
Godar, Sharon A	ST. LOUIS METROP.	190
Goebel, Joan M	ST. LOUIS METROP.	190
Goebel, Joel A	ST. LOUIS METROP.	190
Goeking, C Keith	BUCHANAN	030
Goell, Robt S	ST. LOUIS METROP.	190
Goerz, Ann A	METRO MED-GREATER KC	098
Goerz, Royal D	METRO MED-GREATER KC	098
Goetz, Joseph J	METRO MED-GREATER KC	098
Goetz, Kenneth L	METRO MED-GREATER KC	098
Goff, John E	JASPER	102
Goheen, John R	METRO MED-GREATER KC	098
Gold, Jonathan A	ST. LOUIS METROP.	190
Golden, Samuel E	GREENE	082
Goldfarb, Alvin	ST. LOUIS METROP.	190
Goldkamp, John D	ST CHARLES-LINCOLN	189
Goldman, Arnold M	ST. LOUIS METROP.	190

---

* Doctor of osteopathy

Goldman, Barry C	METRO MED-GREATER KC	098
Goldman, Gordon M	ST. LOUIS METROP.	190
Goldman, Hyman J	ST. LOUIS METROP.	190
Goldman, Melvin L	ST. LOUIS METROP.	190
Goldman, Stanley L	METRO MED-GREATER KC	098
Goldring, David	ST. LOUIS METROP.	190
Goldring, Sidney	ST. LOUIS METROP.	190
Goldsich, Edward	METRO MED-GREATER KC	098
Goldstein, Benjamin	ST. LOUIS METROP.	190
Goldstein, David E	BOONE	026
Goldstein, Marcy A	ST. LOUIS METROP.	190
Goldstein, Marvin F	METRO MED-GREATER KC	098
Goltschman, John P	ST. LOUIS METROP.	190
Gomez, Cesar A	ST. LOUIS METROP.	190
Gondring, William H	BUCHANAN	030
Gonzales, Jose H	PERRY-STE GENEVIEVE	174
Gonzalez, Alicia D	ST. LOUIS METROP.	190
Gonzalez, Mario G	JOHNSON	110
Goodhope, Karen F	ST. LOUIS METROP.	190
Goodman, Douglas E	GREENE	082
Goodman, Nathaniel	ST. LOUIS METROP.	190
Goodwin, J. Wendall	GREENE	082
Goolsbee, Robt L	METRO MED-GREATER KC	098
Goran, David A	ST. LOUIS METROP.	190
Gordon, Bruce J	BOONE	026
Gordon, James M	ST. LOUIS METROP.	190
Gordon, James S	COLE	058
Gordon, Mark E	CLAY-PLATTE	050
*Gordon, Stephen M	METRO MED-GREATER KC	098
Gose, Don F	GREENE	082
Gotti, Edward W	GREENE	082
Gottlieb, Charlene C	ST. LOUIS METROP.	190
Gottsch, Joseph C	METRO MED-GREATER KC	098
Gould, Ronald J	ST. LOUIS METROP.	190
Gowda, Siddhesh	ST. LOUIS METROP.	190
Gowdamarajan, Rengasamy	METRO MED-GREATER KC	098
Grable, James D	PEMISCOT	170
Grace, Steve	GREENE	082
Grady, Ronald K	ST. LOUIS METROP.	190
Gragnani, John A	ST. LOUIS METROP.	190
Graham, Joseph M	JASPER	102
Graham, Patrick G	METRO MED-GREATER KC	098
Graham, Wallace H	METRO MED-GREATER KC	098
Grand, M. Gilbert	ST. LOUIS METROP.	190
Grannemann, H. Neal	MID-MISSOURI	135
Grant, John M	ST. LOUIS METROP.	190
Grant, Neville	ST. LOUIS METROP.	190
Grant, Ruth	GREENE	082
Graul, Walter P	ST. LOUIS METROP.	190
Graves, Kathleen L	GREENE	082
Graviss, Edward R	ST. LOUIS METROP.	190
Gray, Frances L	METRO MED-GREATER KC	098
Gray, Gary J	ST. LOUIS METROP.	190
Gray, Walter C	MINERAL AREA	138
Grebe, T. Keith	JASPER	102
Green, J. Richard	METRO MED-GREATER KC	098
Green, James R	JASPER	102
Green, Morton R	ST. LOUIS METROP.	190
Green, Thomas F	METRO MED-GREATER KC	098
Green, Wm R	ST. LOUIS METROP.	190
Greenberg, Benjamin E	TRI-LAKES	208
Greenberg, Martin T	METRO MED-GREATER KC	098
Greene, Harry L	NORTHEAST	150
Greenlund, Nelson C	WEST CENTRAL	214
*Greenspan, Peter B	METRO MED-GREATER KC	098
Gregory, John G	ST. LOUIS METROP.	190
Gresick, Robt J	ST. LOUIS METROP.	190
Grewal, Narinder S	BUCHANAN	030
Griesemer, Bernard A	GREENE	082
Griffin, Darrell L	MINERAL AREA	138
Griffin, Donald R	METRO MED-GREATER KC	098
Griffin, M E	D-H-P-D	066
Griffin, Olin A	D-H-P-D	066
Griffin, Wm T	BOONE	026
Griffith, S Kent	CAPE GIRARDEAU	042
Griggs, James Y	ST. LOUIS METROP.	190
Grim, Edward M	JASPER	102
Grimes, Elwyn M	METRO MED-GREATER KC	098
Grimes, Manning E	BUCHANAN	030
Grix, Gary J	MINERAL AREA	138
Groce, Geo D	CALLAWAY	038
Growdon, John A	METRO MED-GREATER KC	098
Grubb, Paul H	JASPER	102
Grubb, Robt L	ST. LOUIS METROP.	190
Gruenebaum, Michael I	METRO MED-GREATER KC	098
Gruenebaum, Steven A	METRO MED-GREATER KC	098
Grundmann, Wm H	ST. LOUIS METROP.	190
Grunt, Jerome A	METRO MED-GREATER KC	098
Guastello, Jos R	METRO MED-GREATER KC	098
Guastello, Mario J	METRO MED-GREATER KC	098
Gubin, Alan S	PEMISCOT	170
*Guenthner, Brenda L	BOONE	026
Guerra, Gaston G	METRO MED-GREATER KC	098
Guhleman, Henry V	COLE	058
Guignon, Michael G	ST. LOUIS METROP.	190
Gujarati, Subhash B	B-W-R-C	034
Gulick, C. Richard	ST. LOUIS METROP.	190
Gundle, Sigmund	METRO MED-GREATER KC	098
Gunn, Jack	LAKE OF THE OZARKS	120
Gunn, Richard W	METRO MED-GREATER KC	098
Gunn, Victoria	COLE	058
Gunn, Walter T	ST. LOUIS METROP.	190
Gunnoe, Robert E	METRO MED-GREATER KC	098
Gunter, Joe S	BUCHANAN	030
Gupta, Jitendra K	ST. LOUIS METROP.	190
Gupta, Mala R	METRO MED-GREATER KC	098
Gura, George M JR.	METRO MED-GREATER KC	098
Gurba, Danny M	METRO MED-GREATER KC	098
Gurian, Lawrence E	GREENE	082
Gursahani, Mohan	ST. LOUIS METROP.	190
Gurucharri, Vincent P	BOONE	026
Gustafson, Jon E	METRO MED-GREATER KC	098
Gutek, Edward P	METRO MED-GREATER KC	098
Gutierrez, Anthony C	METRO MED-GREATER KC	098
Gutierrez-Medina, Ernesto	ST. LOUIS METROP.	190
Gutknecht, Richard	METRO MED-GREATER KC	098
Gutwein, Michael B	ST. LOUIS METROP.	190
Gutzmer, Ernest W	GREENE	082
Guy, Cynthia S	ST. LOUIS METROP.	190
Guyer, Emily	BOONE	026
Guyol, William B Jr.	ST. LOUIS METROP.	190
Guze, Saml B	ST. LOUIS METROP.	190
Gwartz, Brian L	JEFFERSON	106
Gwin, Edward	GREENE	082

H

H'Doubler, Chas	GREENE	082
H'Doubler, Francis T	GREENE	082
H'Doubler, Peter B	GREENE	082
Ha, Richard J	NORTHEAST	150
Haas, Chris J	METRO MED-GREATER KC	098
Haas, Harry D	METRO MED-GREATER KC	098
Haas, Robert W	CLAY-PLATTE	050
Habermann, James H	JASPER	102
Habert, Edward R	ST. LOUIS METROP.	190
Habib, Henry N	METRO MED-GREATER KC	098
Hacker, Douglas A	GREENE	082
Haddock, James N	ST. LOUIS METROP.	190
Haddow, Alastair D	GREENE	082
Haen, Chas J	GREENE	082
Hagan, Danl J	ST. LOUIS METROP.	190
Hagan, John C	CLAY-PLATTE	050
Hagar, David L	METRO MED-GREATER KC	098
Hagebusch, Omer E	ST. LOUIS METROP.	190
Hagemann, Paul O	ST. LOUIS METROP.	190
Hagen, Duane Q	ST. LOUIS METROP.	190
Hagen, Garrett A	ST. LOUIS METROP.	190
Hahn, Bruce H	METRO MED-GREATER KC	098
Hahn, Frederick W	METRO MED-GREATER KC	098
Hahn, Yoram	ST. LOUIS METROP.	190
Haibach, Helmut	BOONE	026
Haight, J. Max	METRO MED-GREATER KC	098
Hainline, Sarah W	ST. LOUIS METROP.	190
Haith, Edward E	METRO MED-GREATER KC	098
Haith, Walter F	METRO MED-GREATER KC	098
Hakami, Nasrollah	BOONE	026
Hale, Thomas H	ST. LOUIS METROP.	190
Haley, Ted M	CLAY-PLATTE	050
Halford, Richard	ST. LOUIS METROP.	190
Hall, David G	BOONE	026
Hall, David W	GREENE	082
Hall, Durward G	GREENE	082

---

* Doctor of osteopathy.

*Hall, Frederick K	METRO MED-GREATER KC	098
Hall, John C	METRO MED-GREATER KC	098
*Hall, John P	CAPE GIRARDEAU	042
Hall, Marvin F	JASPER	102
Hall, Preston C	ST. LOUIS METROP.	190
Hall, Robt T	METRO MED-GREATER KC	098
Hall, Stanley G	NORTHEAST	150
Hallaba, M. A. S.	JASPER	102
Hallazgo, Santiago Y	ST. LOUIS METROP.	190
Halley, R H	ST. LOUIS METROP.	190
Halloran, Mark J	ST. LOUIS METROP.	190
Halperin, Phillip H	METRO MED-GREATER KC	098
Halverson, John D	ST. LOUIS METROP.	190
Halverson, Larry W	OZARKS	166
Hamaker, William R	METRO MED-GREATER KC	098
*Hamar, Denise M	JASPER	102
Hamburg, Eric D	MINERAL AREA	138
Hamburg, Frederic L	GREENE	082
Hamburg, Mitchell S	METRO MED-GREATER KC	098
Hamburger, Stephen C	METRO MED-GREATER KC	098
Hamedi, Tyann G	METRO MED-GREATER KC	098
Hamid, Rashid S	SALINE	198
Hamill, Robt W	METRO MED-GREATER KC	098
Hamilton, Caldwell K	ST. LOUIS METROP.	190
Hamilton, Eugene G	ST. LOUIS METROP.	190
Hamilton, John A	ST. LOUIS METROP.	190
*Hamilton, Thomas K	JASPER	102
Hamilton, William P	ST. LOUIS METROP.	190
*Hamilton, William V	CLAY-PLATTE	050
Hamilton, Wm P	OZARKS	166
Hamlin, Wyeth	NORTHEAST	150
Hammerman, Albert M	ST. LOUIS METROP.	190
Hammerman, Harley J	ST. LOUIS METROP.	190
Hammerman, Marc R	ST. LOUIS METROP.	190
Hammond, D. Wade	ST. LOUIS METROP.	190
Hammond, David T	ST. LOUIS METROP.	190
Hampton, Stanley F	ST. LOUIS METROP.	190
Hanan, Ernest B	GREENE	082
Hanaway, Jos	ST. LOUIS METROP.	190
Handler, Fred P	COLE	058
Handler, Michael R	ST. LOUIS METROP.	190
Handoyo, Frans S	ST. LOUIS METROP.	190
Hanel, Douglas P	ST. LOUIS METROP.	190
Hanley, Thomas P	ST. LOUIS METROP.	190
Hanna, Fayez A	ST. LOUIS METROP.	190
Hanna, Hugh A	JOHNSON	110
Hannah, Hamner III	METRO MED-GREATER KC	098
Hannas, Ralston R	METRO MED-GREATER KC	098
Hansbrough, Eugene T	B-W-R-C	034
Hansen, Thomas L	METRO MED-GREATER KC	098
Hanson, E J	METRO MED-GREATER KC	098
Hanson, Karl H	METRO MED-GREATER KC	098
*Hanson, Lesley A	ST. LOUIS METROP.	190
Hanss, Armand W	GREENE	082
Hantman, Stephen L	ST. LOUIS METROP.	190
Hanto, Douglas W	ST. LOUIS METROP.	190
Hantz, Oscar	ST. LOUIS METROP.	190
Harbrecht, James J	METRO MED-GREATER KC	098
Hardacre, Ruth A	METRO MED-GREATER KC	098
Hardin, David B	BOONE	026
Hardin, Wm B	ST. LOUIS METROP.	190
Harding, Clarke T	ST CHARLES-LINCOLN	189
Hardman, William A	GREENE	082
Hardy, David A	ST. LOUIS METROP.	190
Hardy, Guerdan	ST. LOUIS METROP.	190
Hardy, Henry M	METRO MED-GREATER KC	098
Hardy, John W	METRO MED-GREATER KC	098
Hardy, Patrick J	ST. LOUIS METROP.	190
Hardy, Stanton L	MINERAL AREA	138
Harell, Alex	ST. LOUIS METROP.	190
Harford, Carl G	ST. LOUIS METROP.	190
Hargis, James L	GREENE	082
Hari, Magaral S	JASPER	102
Harkins, Wm B	ST. LOUIS METROP.	190
Harless, Morris S	METRO MED-GREATER KC	098
Harlow, Lloyd M	METRO MED-GREATER KC	098
Harlow, Richard J Jr	METRO MED-GREATER KC	098
Harmon, Ben C	GREENE	082
Harmon, Robert G	COLE	058
Harms, James F	WEST CENTRAL	214
Harner, Casper G	BUCHANAN	030
Harold, Ralph E	METRO MED-GREATER KC	098
Harper, Fleming B	ST. LOUIS METROP.	190
Harr, Patrick B	NORTHWEST	158
Harris, David J	METRO MED-GREATER KC	098
Harris, Hugh S	BOONE	026
Harris, Hugh G	GREENE	082
Harris, Lanny W	METRO MED-GREATER KC	098
Harris, Robt J	BOONE	026
Harris, Weldon L	METRO MED-GREATER KC	098
Harrison, Garth F	METRO MED-GREATER KC	098
Harrison, Lee B	ST. LOUIS METROP.	190
Harrison, Phil W	JASPER	102
Harrison, Richard L	ST. LOUIS METROP.	190
Harrison, Thomas J Jr.	SEMO	202
Harrison, Winston E	BOONE	026
Harry, Bruce E	BOONE	026
Harshman, David M	ST. LOUIS METROP.	190
Hart, L. Wayne	METRO MED-GREATER KC	098
Hart, Richard S	METRO MED-GREATER KC	098
Hart, William G Jr.	ST. LOUIS METROP.	190
Hart, William M Jr.	ST. LOUIS METROP.	190
Hartman, Gregory L	METRO MED-GREATER KC	098
Hartman, Paul T	ST. LOUIS METROP.	190
Hartman, Richard A	ST. LOUIS METROP.	190
Hartman, Rodney C	PETTIS	178
Hartmann, Thomas G	CAPE GIRARDEAU	042
Hartnett, Anna E	ST. LOUIS METROP.	190
Hartnett, Thos D	ST. LOUIS METROP.	190
Hartstein, Jack	ST. LOUIS METROP.	190
Hartwell, Patricia	ST. LOUIS METROP.	190
Hartwig, Frederick H	METRO MED-GREATER KC	098
Hartwig, Raymond W	METRO MED-GREATER KC	098
Hartzler, Geoffrey O	METRO MED-GREATER KC	098
Harvey, Harold D	GREENE	082
Harvey, Judith E	GREENE	082
Harwell, James L	ST. LOUIS METROP.	190
Hasek, James A	SOUTH CENTRAL	206
Hasek, Oliver M	SOUTH CENTRAL	206
Hasenmueller, James J	ST. LOUIS METROP.	190
Hasik, Karl J	ST. LOUIS METROP.	190
Hasler, Galen R	GREENE	082
Hatfalvi, Bela I	ST. LOUIS METROP.	190
Hatlelid, J. Michael	ST. LOUIS METROP.	190
Hatlelid, R. Robert	JASPER	102
Haueisen, David C	ST. LOUIS METROP.	190
Haupt, Herbert A	ST. LOUIS METROP.	190
Hause, Drew W	METRO MED-GREATER KC	098
Hauser, Robt J	COLE	058
Hausheer, Herman J	METRO MED-GREATER KC	098
Havaldar, Kanti L	NORTHWEST	158
Havey, Ann D	BOONE	026
Havey, John	BOONE	026
Haw, Marvin T	BOONE	026
Hawatmeh, Ibrahim S	ST. LOUIS METROP.	190
Hawatmeh, Isam S	ST. LOUIS METROP.	190
Hawk, Bray O	ST. LOUIS METROP.	190
Hawk, Thomas M	ST. LOUIS METROP.	190
Hawker, Wm D	ST. LOUIS METROP.	190
Hawkins, Calvin D	GREENE	082
Hawkins, Geo L	ST. LOUIS METROP.	190
Haycraft, Gordon L	CAPE GIRARDEAU	042
Hayden, Melvin R	LAKE OF THE OZARKS	120
Hayek, Wesley E	ST. LOUIS METROP.	190
Hayes, Lawrence L	CLAY-PLATTE	050
Hayes, Paul W	BUCHANAN	030
Hayes, Stanley P	GREENE	082
Haynie, William W	WEST CENTRAL	214
Hays, Larry V	METRO MED-GREATER KC	098
Hazan, Joseph	ST. LOUIS METROP.	190
Hazel, James G Jr.	PEMISCOT	170
Hazen, Robt M	METRO MED-GREATER KC	098
Hazuka, David F	METRO MED-GREATER KC	098
Headrick, John A	ST. LOUIS METROP.	190
Healy, Brian E	METRO MED-GREATER KC	098
Heath, Jimmy D	SEMO	202
Hecker, Jos E	B-W-R-C	034
Hedge, S. Roy	METRO MED-GREATER KC	098
Hedges, Richard C	CLAY-PLATTE	050
Heeb, Max A	SEMO	202
Hegde, Korgi V	ST. LOUIS METROP.	190
Heilbrunn, Ilse	MID-MISSOURI	135
Heilman, Edward J	METRO MED-GREATER KC	098
Heimburger, Richard A	BOONE	026

---

* Doctor of osteopathy.

Heins, Donald E	BUCHANAN	030
Heins, James N	ST. LOUIS METROP.	190
Heinz, George	GREENE	082
Helbing, Edward J	ST. LOUIS METROP.	190
Helfrich, Loring	SEMO	202
Helikson, Mary A	BOONE	026
Hellam, Duane C	GREENE	082
Heller, Randall L Jr.	ST. LOUIS METROP.	190
Hellerstein, Stanley	METRO MED-GREATER KC	098
Helling, Thomas S	METRO MED-GREATER KC	098
Hellman, Richard	METRO MED-GREATER KC	098
Hellweg, Chas E	OZARKS	166
Hellweg, Raymond W	ST. LOUIS METROP.	190
Hemaya, Rizk M	METRO MED-GREATER KC	098
Hendren, Thos H	CLAY-PLATTE	050
Henry, Clarke L	METRO MED-GREATER KC	098
Henry, Clarke L Jr	METRO MED-GREATER KC	098
Henry, Jos E	CLAY-PLATTE	050
Henry, Lawrence O	COLE	058
Henry, Roy A	GREENE	082
Henschel, Eugene V	ST. LOUIS METROP.	190
Henselmeier, Dale M	ST. LOUIS METROP.	190
Henson, Bruce E	METRO MED-GREATER KC	098
Henzel, John H	BOONE	026
Her, Kyu S	ST. LOUIS METROP.	190
Herath, Adolph J	MINERAL AREA	138
Herbers, Mark F	ST. LOUIS METROP.	190
Herbst, Deborah A	ST. LOUIS METROP.	190
Herdoiza, Alfonso W	METRO MED-GREATER KC	098
Herfkens, Kenneth O	GREENE	082
Herman, Allen I	BUCHANAN	030
Herman, Edwin M	METRO MED-GREATER KC	098
Herman, Morris	ST. LOUIS METROP.	190
Hernandez, Salvador R	ST. LOUIS METROP.	190
Herriford, Merle B	ST. LOUIS METROP.	190
Herrmann, Virginia M	ST. LOUIS METROP.	190
Hershey, Falls B	ST. LOUIS METROP.	190
Hertel, Ronald C	ST. LOUIS METROP.	190
Hervey, Wm H	METRO MED-GREATER KC	098
Heryer, John W	METRO MED-GREATER KC	098
Herzog, Godofredo M	ST. LOUIS METROP.	190
Herzog, Jacques A	ST. LOUIS METROP.	190
Hesker, Albert E	ST. LOUIS METROP.	190
Hess, John P	ST. LOUIS METROP.	190
Hess, Mark R	METRO MED-GREATER KC	098
Hess, Suzanne P	METRO MED-GREATER KC	098
Hestorff, Robert D	B-W-R-C	034
Heusler, Anton F	ST. LOUIS METROP.	190
Heutel, Lee B	ST. LOUIS METROP.	190
*Hevel, Robert W	NORTHEAST	150
Hibbard, Blaine Z	METRO MED-GREATER KC	098
Hickey, James L	ST. LOUIS METROP.	190
Hicks, Robt S	ST. LOUIS METROP.	190
Higgins, Edward F JR	METRO MED-GREATER KC	098
Higgins, Philip C	ST. LOUIS METROP.	190
Higgins, Ronald A	METRO MED-GREATER KC	098
Highland, Thomas R	BOONE	026
Hilbert, Paul H	ST. LOUIS METROP.	190
Hildreth, H. Rommel	ST. LOUIS METROP.	190
Hill, Jack H	METRO MED-GREATER KC	098
Hill, M. Robert	ST. LOUIS METROP.	190
Hill, Randy C	GREENE	082
Hill, Ronald T	SEMO	202
Hill, Xacadene A	ST. LOUIS METROP.	190
Hills, Joe E	GREENE	082
Hilton, Paul E	JASPER	102
Hinds, Paul A	GREENE	082
Hink, Frederick W	METRO MED-GREATER KC	098
Hinrichs, James H	ST. LOUIS METROP.	190
Hintze, Paul F	ST. LOUIS METROP.	190
Hironimus, John E	ST. LOUIS METROP.	190
Hirsch, Joe E	METRO MED-GREATER KC	098
Hirshberg, Gary E	ST. LOUIS METROP.	190
Hite, Dennis E	LACLEDE	115
Ho, Grinny H	SEMO	202
Ho, Judith E	ST. LOUIS METROP.	190
Hobbs, John E	ST. LOUIS METROP.	190
Hodel, Kenneth A	ST. LOUIS METROP.	190
Hodge, Robt H	CLAY-PLATTE	050
Hodgson, Frank H	METRO MED-GREATER KC	098
Hoech, Geo P	METRO MED-GREATER KC	098
Hoehn, John P III	ST. LOUIS METROP.	190
Hoelscher, Harold F	F-G-W	074
Hoeman, Michael O	GREENE	082
Hoeper, Saml O	METRO MED-GREATER KC	098
Hoeper, Samuel O Jr.	METRO MED-GREATER KC	098
Hof, David G	METRO MED-GREATER KC	098
Hoffman, Jacob S	METRO MED-GREATER KC	098
*Hoffman, James E	CAPE GIRARDEAU	042
Hoffman, Mark J	ST. LOUIS METROP.	190
Hoffman, Robert L	PERRY-STE GENEVIEVE	174
Hoffman, Robert J	ST. LOUIS METROP.	190
Hoffman, William F	ST. LOUIS METROP.	190
Hoffmann, Alan L	METRO MED-GREATER KC	098
Hoffmann, Lee M	METRO MED-GREATER KC	098
Hoffmann, Ronald E	ST. LOUIS METROP.	190
Hoffmann, Sandra S	ST. LOUIS METROP.	190
Hofmeister, Roger W	BOONE	026
Hofstatter, Leopold	ST. LOUIS METROP.	190
Hogan, Cornelius E	ST. LOUIS METROP.	190
Hogan, John R	ST. LOUIS METROP.	190
Hogan, Patrick C	ST. LOUIS METROP.	190
Hogan, Patrick A	ST. LOUIS METROP.	190
Hoja, W Alex	B-W-R-C	034
Holand, Roy W	GREENE	082
Holcomb, John K	CAPE GIRARDEAU	042
Holder, Barrett K	ST. LOUIS METROP.	190
Holder, Thos M	METRO MED-GREATER KC	098
Holekamp, Timothy	BOONE	026
Holemon, R. Eugene	ST. LOUIS METROP.	190
Holkins, John M	METRO MED-GREATER KC	098
Holland, Robt O	GREENE	082
Holley, Donald B	LAKE OF THE OZARKS	120
Hollinger, Lloyd A	METRO MED-GREATER KC	098
Hollis, Richard W	GREENE	082
Hollo, Vencel W	ST. LOUIS METROP.	190
Hollocher, Richard J	ST. LOUIS METROP.	190
Holloman, Walter G	ST. LOUIS METROP.	190
Holloway, Robert B	ST. LOUIS METROP.	190
Holman, Jos G	METRO MED-GREATER KC	098
Holmes, Danl E	GREENE	082
Holmes, David R	GREENE	082
Holmes, Nancy E	ST. LOUIS METROP.	190
Holmes, Richard A	BOONE	026
Holscher, Edward C	ST. LOUIS METROP.	190
Holt, Wm E	ST. LOUIS METROP.	190
Holtmann, Barbel	ST. LOUIS METROP.	190
Holton, Edward B	METRO MED-GREATER KC	098
Holtz, Alan S	ST. LOUIS METROP.	190
Holtz, Sumner	ST. LOUIS METROP.	190
Holtzman, Samuel	JASPER	102
Honaas, Trygve O	CAPE GIRARDEAU	042
*Honderick, Richard T	GREENE	082
Hood, Roger W	METRO MED-GREATER KC	098
Hookerman, Bruce J	ST. LOUIS METROP.	190
Hoopes, Phillip C	METRO MED-GREATER KC	098
Hoos, Gary L	GREENE	082
Hooshmand, Ahmad	COLE	058
Hoover, Bernard L	ST. LOUIS METROP.	190
Hopkins, James P	METRO MED-GREATER KC	098
Hopkins, Thomas S	PETTIS	178
Hopkins, Thos J	PETTIS	178
Horenstein, Simon	ST. LOUIS METROP.	190
Horine, Jon A	METRO MED-GREATER KC	098
Horn, Arthur H	BOONE	026
Horn, Michael J	WEST CENTRAL	214
Horn, Paul C	CAPE GIRARDEAU	042
Hornbostel, Phillip M	PETTIS	178
Horner, John L	ST. LOUIS METROP.	190
Hornig, Gregory W	METRO MED-GREATER KC	098
Hornstra, Robijn K	METRO MED-GREATER KC	098
Horochowski, Alejandro	PETTIS	178
Horton, Bill G	GREENE	082
Horton, James O	GREENE	082
Horwitz, Irwin B	ST. LOUIS METROP.	190
Hosler, Mark W	CAPE GIRARDEAU	042
Houck, William E	ST. LOUIS METROP.	190
Houttuin, Erik	JEFFERSON	106
Hover, Alexander R	GREENE	082
Howard, Campbell P	METRO MED-GREATER KC	098
Howe, Albert L	ST. LOUIS METROP.	190
Howe, Louis F	ST. LOUIS METROP.	190
Howell, Billy D	GRAND RIVER	078
Howitt, William J	GREENE	082

---

* Doctor of osteopathy.

Hoxworth, Gerald M	AUDRAIN	014
Hoyt, Terry S	BOONE	026
Hruska, Keith A	ST. LOUIS METROP.	190
Hu, Raymond J	ST. LOUIS METROP.	190
Hubbard, Anne M	METRO MED-GREATER KC	098
Hubbard, Sally L	GREENE	082
Hubbell, Marius M JR	METRO MED-GREATER KC	098
Huber, Lasley E	C-M-M-R	046
Hubert, John W	ST. LOUIS METROP.	190
Huck, Richard F Jr.	ST. LOUIS METROP.	190
Huckstep, Robt A	MINERAL AREA	138
Hudgens, Richard W	ST. LOUIS METROP.	190
Huet-Vaugh, Yolanda	METRO MED-GREATER KC	098
Huewe, Douglas A	GREENE	082
Huffaker, William H	ST. LOUIS METROP.	190
Huffman, Thos L	SOUTH CENTRAL	206
Hufft, Robert E Jr	GREENE	082
Huggins, Albert M	ST. LOUIS METROP.	190
Hughes, Derek	COLE	058
Hughes, Judson M	BUCHANAN	030
Hughes, Michael F	METRO MED-GREATER KC	098
Hughes, Robert E	METRO MED-GREATER KC	098
Hughes, Robt G	ST. LOUIS METROP.	190
Hughes, Shelby B	HENRY	086
Hulbert, Bernard	ST. LOUIS METROP.	190
*Hull, Jeffrey F	BUCHANAN	030
Hull, Timothy A	METRO MED-GREATER KC	098
Hulstra, Johannes F	GREENE	082
Hummel, Anton J	ST. LOUIS METROP.	190
Hummel, Gregory L	METRO MED-GREATER KC	098
Hummel, Rick G	ST. LOUIS METROP.	190
Hummel, Wm C	ST. LOUIS METROP.	190
Humphrey, James D	NORTHWEST	158
Humphreys, Edward T	COOPER	062
Hunkeler, John D	METRO MED-GREATER KC	098
Hunleth, Frank E	ST. LOUIS METROP.	190
Hunsley, Perry U	TRI-LAKES	208
Hunt, John L	B-W-R-C	034
Hunt, Robert S	CAPE GIRARDEAU	042
Hunt, Thos P	METRO MED-GREATER KC	098
*Hunter, Harlen C	ST. LOUIS METROP.	190
Hunter, James K Jr.	NORTHWEST	158
Hunter, James G	CLAY-PLATTE	050
Huntington, Ione	OZARKS	166
Hunzicker, Warren J	METRO MED-GREATER KC	098
Huq, MD N	AUDRAIN	014
Hurd, James R	ST. LOUIS METROP.	190
Hurley, Joseph J	ST. LOUIS METROP.	190
Hurst, Wilfred W	JASPER	102
Husain, S. Arshad	BOONE	026
Huse, Wm J	METRO MED-GREATER KC	098
Huss, Randall D	MID-MISSOURI	135
Hustead, Russell M	METRO MED-GREATER KC	098
Husted, Frederick C	GREENE	082
Huster, Robert M	MID-MISSOURI	135
Huston, Kent A	METRO MED-GREATER KC	098
Hutchinson, James H	ST. LOUIS METROP.	190
Hutchinson, William B	ST. LOUIS METROP.	190
Hyatt, Robt W	BOONE	026
Hyde, Lawrence L	METRO MED-GREATER KC	098
*Hyman, Henry T	CLAY-PLATTE	050
Hynes, Michael F	METRO MED-GREATER KC	098

I

Ibarra, Guillermo	METRO MED-GREATER KC	098
Icaza, Ramiro	CAPE GIRARDEAU	042
Ide, Carl H	BOONE	026
Ide, Lucien W	BUCHANAN	030
Ikeda, Shigemasa	ST. LOUIS METROP.	190
Imes, Elvin D	NORTHWEST	158
Ingham, Walton C	METRO MED-GREATER KC	098
Inman, Max M	ST. LOUIS METROP.	190
Innis, Rosalyn E	METRO MED-GREATER KC	098
Inocencio, Eddie C	BUCHANAN	030
Ip, Aidan W	ST. LOUIS METROP.	190
Ippensen, John H	GREENE	082
Irvin, William S	BOONE	026
Irvin, Wm M	ST. LOUIS METROP.	190
Irvine, John W	METRO MED-GREATER KC	098
Irwig, Fred	METRO MED-GREATER KC	098
Ishida, Yasuo	ST. LOUIS METROP.	190
Isserman, Michael J	ST. LOUIS METROP.	190
Ittner, Geo W	ST. LOUIS METROP.	190
Ivins, Gregory K	CALLAWAY	038
Ivy, H. B.	GREENE	082
Iwane, Akira	ST. LOUIS METROP.	190
Izmirlian, Grant	ST. LOUIS METROP.	190

J

Jablonski, Raymond C	ST. LOUIS METROP.	190
*Jacks, Richard K	BUCHANAN	030
Jackson, Darwin C	ST. LOUIS METROP.	190
Jackson, Mary Anne	METRO MED-GREATER KC	098
Jackson, Robt L	BOONE	026
Jackson, Roger P	CLAY-PLATTE	050
Jackson, Vernon B	CALLAWAY	038
Jacob, Karl A	ST. LOUIS METROP.	190
Jacobs, Chas C	ST. LOUIS METROP.	190
Jacobs, Frederick A	ST. LOUIS METROP.	190
Jacobs, Morton	METRO MED-GREATER KC	098
Jacobs, Richard D	ST. LOUIS METROP.	190
Jacobs, Walter H	METRO MED-GREATER KC	098
Jaeger, Jos N	CAPE GIRARDEAU	042
Jahanian, Iraj	GREENE	082
Jain, Savitri G	ST. LOUIS METROP.	190
Jain, Sumer C	ST. LOUIS METROP.	190
Jalal, Sohail	METRO MED-GREATER KC	098
Jamaluddin, Mohideen A	JEFFERSON	106
James, Elizabeth J	BOONE	026
James, Kathleen M	ST CHARLES-LINCOLN	189
James, Otis E	METRO MED-GREATER KC	098
James, Ronald C	BOONE	026
Jameson, James E	GREENE	082
Jamroz, Greg A	F-G-W	074
Janeczko, Gregory F	GREENE	082
Jantz, Keith	METRO MED-GREATER KC	098
Jarvis, Cathy C	ST. LOUIS METROP.	190
Jatala, Ijaz A	ST. LOUIS METROP.	190
Jaudon, Jos C	ST. LOUIS METROP.	190
Javdan, Ron	ST. LOUIS METROP.	190
Jayanandaiah, Hiremathada	NORTHEAST	150
Jean, J T	ST. LOUIS METROP.	190
Jeans, Virgil E	JASPER	102
Jefferis, Kenneth R	NORTHWEST	158
Jelley, V C	METRO MED-GREATER KC	098
Jenab, Morteza J	METRO MED-GREATER KC	098
Jenkins, David C	METRO MED-GREATER KC	098
Jenkins, Edward R	MID-MISSOURI	135
Jennett, J H	METRO MED-GREATER KC	098
Jenny, Arthur B	ST. LOUIS METROP.	190
Jensen, Joshua E	ST. LOUIS METROP.	190
Jensen, Joshua E II	ST. LOUIS METROP.	190
Jhaveri, Urmila Babubhai	METRO MED-GREATER KC	098
Jick, Sidney	ST. LOUIS METROP.	190
Jobe, Chas L	GREENE	082
Joffe, Wm S	ST. LOUIS METROP.	190
Johans, Thomas G	ST. LOUIS METROP.	190
Johnson, C L	METRO MED-GREATER KC	098
Johnson, Chas J	ST. LOUIS METROP.	190
Johnson, Chas S	JOHNSON	110
Johnson, Courtney R	ST. LOUIS METROP.	190
Johnson, Dallas A	METRO MED-GREATER KC	098
Johnson, E D III	CAPE GIRARDEAU	042
Johnson, Earl W	CAPE GIRARDEAU	042
Johnson, Frank E	ST. LOUIS METROP.	190
Johnson, Fritz M	GREENE	082
Johnson, Gareth R	METRO MED-GREATER KC	098
Johnson, Gordon L	JEFFERSON	106
Johnson, James S	METRO MED-GREATER KC	098
Johnson, Jeffrey R	GREENE	082
Johnson, Jos C Jr	GREENE	082
Johnson, Jos E	METRO MED-GREATER KC	098
Johnson, Lent C	NORTHEAST	150
Johnson, M. Nanette	GREENE	082
Johnson, Michael K	ST. LOUIS METROP.	190
Johnson, Mitchell D	ST. LOUIS METROP.	190
Johnson, Randy G	ST. LOUIS METROP.	190
Johnson, Richard E	BOONE	026
Johnson, Richard L	METRO MED-GREATER KC	098
Johnson, Steven M	ST. LOUIS METROP.	190
Johnson, Thos M	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Johnson, Tom A	ST. LOUIS METROP.	190
Johnson, Warford B Sr	GREENE	082
Johnson, Warren L JR	METRO MED-GREATER KC	098
Johnson, Wm F	GREENE	082
Johnston, Glen P	ST. LOUIS METROP.	190
Johnston, Jos L	GREENE	082
Johnstone, John T	ST. LOUIS METROP.	190
Joist, Johann H	ST. LOUIS METROP.	190
Jolly, Benj N	AUDRAIN	014
Jonas, Harry S	METRO MED-GREATER KC	098
Jones, Bruce N	ST. LOUIS METROP.	190
Jones, Dorothy J	ST. LOUIS METROP.	190
Jones, Edna M	HENRY	086
Jones, Edward S	WEST CENTRAL	214
Jones, Gale O	METRO MED-GREATER KC	098
Jones, Georgia A	ST. LOUIS METROP.	190
Jones, Harold L	GREENE	082
Jones, James H	ST. LOUIS METROP.	190
*Jones, James E	ST CHARLES-LINCOLN	189
Jones, Keith D	JOHNSON	110
Jones, Laird E	GREENE	082
Jones, Lowry Jr.	METRO MED-GREATER KC	098
Jones, Marion E	METRO MED-GREATER KC	098
Jones, Maynard C	METRO MED-GREATER KC	098
Jones, Michael F	METRO MED-GREATER KC	098
Jones, Otey S	ST. LOUIS METROP.	190
Jones, Patricia E	METRO MED-GREATER KC	098
Jones, Richard A	ST. LOUIS METROP.	190
Jones, Robert R	WEST CENTRAL	214
Jones, Robert P	METRO MED-GREATER KC	098
Jones, Robert S	BOONE	026
Jones, Stanley G Jr.	SEMO	202
Jones, T R	METRO MED-GREATER KC	098
*Jordan, Earl L Jr	JASPER	102
Joseph, Harold J	ST. LOUIS METROP.	190
Joseph, Mary G	ST. LOUIS METROP.	190
Joslyn, Harold L	ST. LOUIS METROP.	190
Jost, Chas A	ST. LOUIS METROP.	190
Jotte, Richard F	ST. LOUIS METROP.	190
Jotte, Richard P	ST. LOUIS METROP.	190
Joyce, Steven T	METRO MED-GREATER KC	098
Judd, Donald R	ST. LOUIS METROP.	190
Judge, Mark A	JASPER	102
Judge, Walter T	JEFFERSON	106
Judy, Bernard O	METRO MED-GREATER KC	098
Judy, Jos D	COOPER	062
Juergens, Wm G	ST. LOUIS METROP.	190
Julien, Rene	ST. LOUIS METROP.	190
Jung, Christopher H	CAPE GIRARDEAU	042
Jung, J. Marshall	CAPE GIRARDEAU	042
Junker, James A	JEFFERSON	106
Justus, John B	METRO MED-GREATER KC	098

K

Kabir, Mohammed A	ST. LOUIS METROP.	190
Kaczmarek, Ellen	ST. LOUIS METROP.	190
Kagan, Stuart M	METRO MED-GREATER KC	098
Kahler, Monte R	D-H-P-D	066
Kahn, Joseph A	SEMO	202
Kahn, Marvin	METRO MED-GREATER KC	098
Kairuz, Bartolome C	ST. LOUIS METROP.	190
Kaiser, Geo C	ST. LOUIS METROP.	190
Kakaiya, Dilip H	DUNKLIN	070
Kakolewski, Jan W	D-H-P-D	066
Kallenbach, Glen P	AUDRAIN	014
Kamada, Tsutomu	ST CHARLES-LINCOLN	189
Kamakas, Nicholas C	ST. LOUIS METROP.	190
Kamath, K.P.S.	CAPE GIRARDEAU	042
Kamenetzky, Stephen A	ST. LOUIS METROP.	190
Kaminski, Donald L	ST. LOUIS METROP.	190
Kampschmidt, Donald L	LACLEDE	115
Kanagawa, Harold K	COLE	058
Kanarek, Joseph	METRO MED-GREATER KC	098
Kandt, Raymond E	METRO MED-GREATER KC	098
Kang, Johanna J	ST. LOUIS METROP.	190
Kang, Juan	ST. LOUIS METROP.	190
Kang, Young M	SOUTH CENTRAL	206
Kanne, Marty A	CLAY-PLATTE	050
Kannegiesser, Hartmut	ST. LOUIS METROP.	190
Kantak, Anand G	BOONE	026
Kantor, Julius M	METRO MED-GREATER KC	098
Kantor, Owen	ST. LOUIS METROP.	190
Kantor, Saml	METRO MED-GREATER KC	098
Kaplan, Alex H	ST. LOUIS METROP.	190
Kaplan, Michael F	BOONE	026
Kaplan, Paul E	BOONE	026
Kappesser, Netajean G	ST. LOUIS METROP.	190
Kappesser, Roland C	ST. LOUIS METROP.	190
Kardesch, Milton	ST. LOUIS METROP.	190
Karl, Michael M	ST. LOUIS METROP.	190
Karp, Robert A	NORTHEAST	150
Karraker, Alvan G	MINERAL AREA	138
Karsh, Robt S	ST. LOUIS METROP.	190
Kartus, Irving	METRO MED-GREATER KC	098
Kasinadhuni, Udayshanker	ST. LOUIS METROP.	190
Kass, Michael A	ST. LOUIS METROP.	190
Kasten, Mark C	CAPE GIRARDEAU	042
Kasten, Melvin C	CAPE GIRARDEAU	042
*Kasukonis, John E	CAPE GIRARDEAU	042
Katf, Nicola Y	CLAY-PLATTE	050
Katnik, Richard J	BOONE	026
Katsantonis, George	ST. LOUIS METROP.	190
Kauffman, Ruth	LAKE OF THE OZARKS	120
Kaufman, Andrew B	METRO MED-GREATER KC	098
Kaufman, Robt L	ST. LOUIS METROP.	190
Kaufmann, Herbert H	METRO MED-GREATER KC	098
Kauk, Bruce A	CLAY-PLATTE	050
Kaup, Chandra S	ST. LOUIS METROP.	190
Kayanan, Jose C	METRO MED-GREATER KC	098
Kayes, Jack	ST. LOUIS METROP.	190
Kays, Kenneth M	C-M-M-R	046
Kaza, Ramarao	ST. LOUIS METROP.	190
Keairnes, Harold W	METRO MED-GREATER KC	098
Keating, James P	ST. LOUIS METROP.	190
Keefe, David M	ST CHARLES-LINCOLN	189
Keesal, Dennis	ST CHARLES-LINCOLN	189
Keffler, Karl L	ST. LOUIS METROP.	190
Keitges, Pierre W	METRO MED-GREATER KC	098
Keller, Maurice J	ST. LOUIS METROP.	190
Keller, Robt M	ST CHARLES-LINCOLN	189
Keller, Stephen M	ST. LOUIS METROP.	190
Kellett, John G	ST. LOUIS METROP.	190
Kelley, Gilbert B	ANDREW	010
Kelling, Douglas G	METRO MED-GREATER KC	098
Kelling, E. Collyer	GREENE	082
Kelly, Charles R	METRO MED-GREATER KC	098
Kelly, James C	GREENE	082
Kelly, John J	ST. LOUIS METROP.	190
Kelly, Joseph G	CLAY-PLATTE	050
Kelly, R E	ST. LOUIS METROP.	190
Keltner, Raymond M Jr.	ST. LOUIS METROP.	190
Keltner, Raymond O	METRO MED-GREATER KC	098
Kendall, Chas A	METRO MED-GREATER KC	098
Kendall, Forrest H	METRO MED-GREATER KC	098
Kendall, Malcolm E	METRO MED-GREATER KC	098
Kendis, Jos B	ST. LOUIS METROP.	190
Kennedy, Fred R	METRO MED-GREATER KC	098
Kennedy, Timothy D	METRO MED-GREATER KC	098
Kennett, Jerry D	BOONE	026
Kenney, Douglas R	HENRY	086
Kenney, John D	ST. LOUIS METROP.	190
Kenney, John D	METRO MED-GREATER KC	098
Kenney, Roy E	OZARKS	166
Kennington, L J	ST. LOUIS METROP.	190
Kensel, Robert S	GREENE	082
Kent, Bela K	METRO MED-GREATER KC	098
Kenyon, Dennis D	GREENE	082
Keohane, Mark	ST CHARLES-LINCOLN	189
Kerkemeyer, George	NORTHEAST	150
Kerr, Frank T	OZARKS	166
Kerr, Harold H	METRO MED-GREATER KC	098
Kessel, James W	ST. LOUIS METROP.	190
Kessler, Sheldon	ST. LOUIS METROP.	190
Ketcherside, William J	CLAY-PLATTE	050
Ketterman, Grace H	METRO MED-GREATER KC	098
Key, James S	GREENE	082
Keyes, E L	ST. LOUIS METROP.	190
Khalil, Tamer G	GREENE	082
Khan, Abdul G	ST. LOUIS METROP.	190
Khan, Altaf A	ST. LOUIS METROP.	190
Khan, Khalid I	CAPE GIRARDEAU	042
Khanna, Ramesh	BOONE	026

---

* Doctor of osteopathy.

Khoury, Cecile S	METRO MED-GREATER KC	098
Khulusi, Basimah	METRO MED-GREATER KC	098
Kiburz, Douglas W	PETTIS	178
Kiekhaefer, Theodore C	BUCHANAN	030
Kielhofner, Marcia A	METRO MED-GREATER KC	098
Kielmovitch, Izak H	ST. LOUIS METROP.	190
Kienzle, Edward	ST. LOUIS METROP.	190
Kies, Richard L	CAPE GIRARDEAU	042
Kilbride, Howard W	METRO MED-GREATER KC	098
Kilgore, John W	ST. LOUIS METROP.	190
Kilker, Donald E	ST. LOUIS METROP.	190
Killen, Duncan A	METRO MED-GREATER KC	098
Kilo, Chas	ST. LOUIS METROP.	190
Kilpatrick, Brian N	ST. LOUIS METROP.	190
Kim, Chul	B-W-R-C	034
Kim, Jin B	BOONE	026
Kim, Longius H	MINERAL AREA	138
Kim, Stanley W	ST. LOUIS METROP.	190
Kim, Tae S	JEFFERSON	106
Kim, William W	ST. LOUIS METROP.	190
Kim, Yang H	F-G-W	074
Kim, Yong Kie	CAPE GIRARDEAU	042
Kimball, Merritt H	METRO MED-GREATER KC	098
Kimble, Harvey S	METRO MED-GREATER KC	098
Kime, Ricky L	OZARKS	166
Kimelman, Nathan	ST. LOUIS METROP.	190
Kimlinger, William R	BOONE	026
Kinder, Doyle O	GREENE	082
Kinder, James A	CAPE GIRARDEAU	042
Kinder, Jerry L	CAPE GIRARDEAU	042
Kindred, Lynn H	METRO MED-GREATER KC	098
King, Donald K	ST. LOUIS METROP.	190
King, Eustace E III	ST. LOUIS METROP.	190
King, Francis C	ST. LOUIS METROP.	190
King, Jay T	METRO MED-GREATER KC	098
King, John V Sr.	ST. LOUIS METROP.	190
King, John V Jr.	ST. LOUIS METROP.	190
King, M. Kenton	ST. LOUIS METROP.	190
King, Richard H	HENRY	086
King, Robert J	BOONE	026
Kingsbury, Helen	METRO MED-GREATER KC	098
Kingsbury, Robt J	ST CHARLES-LINCOLN	189
Kingsland, Robert C	ST. LOUIS METROP.	190
Kinsella, Edward D	ST. LOUIS METROP.	190
Kinsella, Laurence J	ST. LOUIS METROP.	190
Kinsella, Peter W	ST. LOUIS METROP.	190
Kinsella, Ralph A Jr.	ST. LOUIS METROP.	190
Kipfer, Robt E	GREENE	082
Kipnis, David M	ST. LOUIS METROP.	190
Kirkland, Jerry A	CLAY-PLATTE	050
Kissane, John M	ST. LOUIS METROP.	190
Kissel, John H	ST. LOUIS METROP.	190
Kissell, Richard W	GREENE	082
Kister, Geo E	ST CHARLES-LINCOLN	189
Kistler, W. David Jr.	ST. LOUIS METROP.	190
Kistner, Wm F	ST. LOUIS METROP.	190
Kitchen, Alice D	ST. LOUIS METROP.	190
Kitchen, Wm M	METRO MED-GREATER KC	098
Klachko, David M	BOONE	026
Klebba, Larry B	COLE	058
Klein, Bert H	ST. LOUIS METROP.	190
Klein, Edward H	METRO MED-GREATER KC	098
Klein, Saul J	ST. LOUIS METROP.	190
Kleopfer, Lynn L	C-M-M-R	046
Kline, Carlyn M	BUCHANAN	030
Kline, Edmund W	BUCHANAN	030
Kline, Jeffrey J	BOONE	026
Klingner, Geo M	GREENE	082
Klingner, Geo M Jr	GREENE	082
Klinkerfuss, Geo H	GREENE	082
Klontz, William J	JASPER	102
Knabb, Henry F Jr	GREENE	082
Knabb, Kenneth E	GREENE	082
Knappenberger, Kurt R	AUDRAIN	014
Knepper, Paul A III	BUCHANAN	030
Knight, James W	ST. LOUIS METROP.	190
Knight, Lyle B	METRO MED-GREATER KC	098
Knight, Wm A Jr.	ST. LOUIS METROP.	190
Knipschild, Bedford F	SALINE	198
Knoch, H K	METRO MED-GREATER KC	098
Knock, Henry L	ST. LOUIS METROP.	190
Knopf, Harry L	ST. LOUIS METROP.	190
Knowles, R. Raymond	ST. LOUIS METROP.	190
Knowlton, Norman P III	GREENE	082
Knowlton, Norman P Jr.	ST. LOUIS METROP.	190
Knudson, Dennis R	BOONE	026
Kobbermann, Kobby J	GREENE	082
Kobbermann, Thomas W	CLAY-PLATTE	050
Kodner, Ira J	ST. LOUIS METROP.	190
Koehler, Geo A	ST. LOUIS METROP.	190
Koenig, Marvin I	ST. LOUIS METROP.	190
Koerner, Kenneth A	ST. LOUIS METROP.	190
Kolker, Allan E	ST. LOUIS METROP.	190
Kolze, Vernon W	GREENE	082
Konig, Peter	BOONE	026
Koon, Benny H	D-H-P-D	066
Koonce, John P	OZARKS	166
Koontz, Paul G	METRO MED-GREATER KC	098
Kopelson, Jeffrey C	ST. LOUIS METROP.	190
Kopen, Dan F	ST. LOUIS METROP.	190
Kopp, Kenneth R	METRO MED-GREATER KC	098
Kopp, Shelby K	ST. LOUIS METROP.	190
Kopperman, Mordecai	METRO MED-GREATER KC	098
Koppers, Lawrence E	METRO MED-GREATER KC	098
Koreckij, Theodore	JEFFERSON	106
Korenblat, Phillip E	ST. LOUIS METROP.	190
Korn, Robt L	ST. LOUIS METROP.	190
Kosuri, Lalitha	ST. LOUIS METROP.	190
Kotner, Lawrence M	ST. LOUIS METROP.	190
Kotner, Lawrence M Jr.	ST. LOUIS METROP.	190
Kouchoukos, Nicholas T	ST. LOUIS METROP.	190
Kountz, Paul D JR.	ST. LOUIS METROP.	190
Kouo, Louis	CAPE GIRARDEAU	042
Koury, William C	METRO MED-GREATER KC	098
Kovac, S. Robert	ST. LOUIS METROP.	190
Kowert, Edward H	ST. LOUIS METROP.	190
Kraeger, Russell R	ST. LOUIS METROP.	190
Kraetsch, Robert E	ST. LOUIS METROP.	190
Kraft, Jacob	METRO MED-GREATER KC	098
Krahn, Henry C	GREENE	082
Krain, Samuel	ST. LOUIS METROP.	190
Kraner, Justin F	ST. LOUIS METROP.	190
Kranson, Seymour J	METRO MED-GREATER KC	098
Krantman, Herbert J	ST. LOUIS METROP.	190
Kratz, Paul E	CAPE GIRARDEAU	042
Krause, G. Lynn	ST. LOUIS METROP.	190
Krautmann, John J	COLE	058
Kraybill, William G	BOONE	026
Kreisman, Jerold J	ST. LOUIS METROP.	190
Kreski, Kenneth C	ST. LOUIS METROP.	190
Kretchmar, Alan P	ST. LOUIS METROP.	190
Krettek, John E	ST. LOUIS METROP.	190
Kreusser, Katherine L	ST. LOUIS METROP.	190
Krewet, Frank A III	ST. LOUIS METROP.	190
Krickbaum, John H	CLINTON	054
Krieger, John L	ST. LOUIS METROP.	190
Kriegshauser, James W	ST. LOUIS METROP.	190
Kriegshauser, Lawrence A	ST. LOUIS METROP.	190
Krishna, Padma	METRO MED-GREATER KC	098
Kroeger, Geo B Jr.	ST. LOUIS METROP.	190
Krojanker, Rolf J	ST. LOUIS METROP.	190
Kroll, Ryszard B	BOONE	026
Kromer, Chas J	ST. LOUIS METROP.	190
Kronemer, Norton S	ST. LOUIS METROP.	190
Krueckeberg, Steven T	GREENE	082
Kruse, Carl R	NORTHEAST	150
Kuangparichat, Manoch	LAFAYETTE-RAY	118
Kuczer, Arnoldo	ST. LOUIS METROP.	190
Kuebel, Richard J	ST. LOUIS METROP.	190
Kuenzi, Donald E	CLAY-PLATTE	050
Kuhlengel, Barbara G	ST. LOUIS METROP.	190
Kuhlman, Ralph F	ST. LOUIS METROP.	190
Kuhlman, Robert E	ST. LOUIS METROP.	190
Kuhn, Lawrence F	ST. LOUIS METROP.	190
Kuhn, Nobuko O	ST. LOUIS METROP.	190
Kuhn, Wm F	METRO MED-GREATER KC	098
Kulak, Gary	ST. LOUIS METROP.	190
Kulkarni, Nandini S	ST. LOUIS METROP.	190
Kulkarni, Satish R	ST CHARLES-LINCOLN	189
Kumar, Ravi S	ST. LOUIS METROP.	190
Kumari, Vijaya	ST. LOUIS METROP.	190
Kunst, Edward J	ST. LOUIS METROP.	190
Kuntze, Randall P	DUNKLIN	070

---

* Doctor of osteopathy.

Kunz, Stephen R	METRO MED-GREATER KC	098
Kuo, Gong T	DUNKLIN	070
Kurtz, Karl J	METRO MED-GREATER KC	098
Kutryb, Walter J	ST. LOUIS METROP.	190
Kwan, Vicente W	ST. LOUIS METROP.	190
Kwoun, Soung	B-W-R-C	034
Kyaw, Myo M	ST. LOUIS METROP.	190
Kyger, John E	METRO MED-GREATER KC	098

L

L'Ecuyer, Jerome L	ST. LOUIS METROP.	190
Laatsch, Robt H	B-W-R-C	034
Lababidi, Zuhdi A	BOONE	026
Labach, James P	METRO MED-GREATER KC	098
Labayen, Ricardo A	METRO MED-GREATER KC	098
Labrie, Paul L	METRO MED-GREATER KC	098
Lachance, Leopold	BOONE	026
LacKamp, Robert J	BUCHANAN	030
Ladd, Chas B	ST. LOUIS METROP.	190
Ladenson, Roland P	BOONE	026
Lai, Hsien-ell	LAFAYETTE-RAY	118
Laiben, Gregg R	METRO MED-GREATER KC	098
Laird, John M	ST. LOUIS METROP.	190
Lally, James J	METRO MED-GREATER KC	098
Lam, Ernesto S	ST. LOUIS METROP.	190
Lamb, Eileen	ST CHARLES-LINCOLN	189
Lamb, Rebecca L	BOONE	026
Lamb, Wanda	ST. LOUIS METROP.	190
Lamb, William R	GREENE	082
Lamberg, Robert L	ST. LOUIS METROP.	190
Lamberti, Jos W	BOONE	026
Lambie, Rodger W	METRO MED-GREATER KC	098
Lamonda, Gary W	C-M-M-R	046
Lampert, Benjamin A	GREENE	082
Lamping, J. Daniels	ST. LOUIS METROP.	190
Lampros, Wm P	ST. LOUIS METROP.	190
Lampton, Lawrence M	BOONE	026
Lamy, John E	PETTIS	178
Landau, David W	ST. LOUIS METROP.	190
Landau, Wm M	ST. LOUIS METROP.	190
Lander, Robert C	ST. LOUIS METROP.	190
Landers, Burnell	METRO MED-GREATER KC	098
*Landers, Gary A	CLAY-PLATTE	050
Landhuis, Leo R	BOONE	026
Landis, Geo K	METRO MED-GREATER KC	098
Landry, J. Hubert	ST. LOUIS METROP.	190
Landsbaum, Charles J	COLE	058
Landsman, Ira S	METRO MED-GREATER KC	098
Landy, Richard	ST. LOUIS METROP.	190
Lane, Clinton W	ST. LOUIS METROP.	190
Lane, Danl K	ST. LOUIS METROP.	190
Lang, John J	ST. LOUIS METROP.	190
Lange, David R	ST. LOUIS METROP.	190
Langley, Harriet S	METRO MED-GREATER KC	098
Lanier, Earl W	ST. LOUIS METROP.	190
Lansche, W. Edward	ST. LOUIS METROP.	190
Lapi, Angelo	METRO MED-GREATER KC	098
Laramore, Rosemary	BOONE	026
Larocca, Felix E. F.	ST. LOUIS METROP.	190
Larsen, Wm E	METRO MED-GREATER KC	098
Larson, Paul U	ST. LOUIS METROP.	190
Laseter, Michael	B-W-R-C	034
Laster, Jerry L	BOONE	026
Latham, Kenyon S	MONITEAU	142
Latham, Raymond W	METRO MED-GREATER KC	098
Latif, Ashar	LAFAYETTE-RAY	118
Latimer, Walter N	CLAY-PLATTE	050
Lattinville, Henry E	ST. LOUIS METROP.	190
Lauber, Jos J	ST. LOUIS METROP.	190
Lauer, Danl J	METRO MED-GREATER KC	098
Laughlin, Edward J	METRO MED-GREATER KC	098
Laughlin, Thomas P	METRO MED-GREATER KC	098
Lauter, Steven	ST. LOUIS METROP.	190
Laux, France A	ST. LOUIS METROP.	190
Lawrence, Geo H	ST. LOUIS METROP.	190
Lawrence, John R	SALINE	198
Lawton, John T	ST. LOUIS METROP.	190
Layle, John K Jr.	METRO MED-GREATER KC	098
Layton, Ira C	METRO MED-GREATER KC	098
LaOriere, Raymond J	ST. LOUIS METROP.	190
LaFerriere, Keith A	GREENE	082
LaHue, William C	LAFAYETTE-RAY	118
Leach, Wilfred	ST. LOUIS METROP.	190
Leary, Danl J	ST. LOUIS METROP.	190
*Leary, Patrick F	CLAY-PLATTE	050
Lederer, Charles M Jr.	METRO MED-GREATER KC	098
Lederer, Chas M Sr	JOHNSON	110
Lee, Carleton H	BUCHANAN	030
Lee, David Y S	CAPE GIRARDEAU	042
Lee, Fransiska A	ST. LOUIS METROP.	190
Lee, Gerald B	WEST CENTRAL	214
Lee, H. T.	BOONE	026
Lee, Henry A	METRO MED-GREATER KC	098
Lee, Joseph King Tak	ST. LOUIS METROP.	190
Lee, Jung H	JEFFERSON	106
Lee, Kil S	ST. LOUIS METROP.	190
Lee, King Y	METRO MED-GREATER KC	098
Lee, Leander K	ST. LOUIS METROP.	190
Lee, Soo Ja	CALLAWAY	038
Lee, Sook La	C-M-M-R	046
Lee, Tae H	METRO MED-GREATER KC	098
Leech, Maurice P	HOWARD	094
Leeper, Claude K	BOONE	026
Leeper, Sidlee W	BOONE	026
Lees, Joyce M	METRO MED-GREATER KC	098
Leese, Philip T	METRO MED-GREATER KC	098
*Legg, Thomas J	GREENE	082
Legler, Larry E	METRO MED-GREATER KC	098
Lehman, Philip C	BUCHANAN	030
Leibsohn, Joel M	METRO MED-GREATER KC	098
Leidenfrost, Ronald O	ST. LOUIS METROP.	190
Leifer, Gary	METRO MED-GREATER KC	098
Leifer, Wm W	METRO MED-GREATER KC	098
Leightner, Wm F	ST. LOUIS METROP.	190
Lem, Vincent M	METRO MED-GREATER KC	098
Leming, Bert H	ST. LOUIS METROP.	190
Lenobel, Milton I	ST. LOUIS METROP.	190
Lentz, Clark H	METRO MED-GREATER KC	098
Lentz, Harold C	METRO MED-GREATER KC	098
Lentz, Harold C	OZARKS	166
Lentz, Kathy J	F-G-W	074
Lenzenhuber, Karl J	F-G-W	074
Leonhardt, Erwin M	ST. LOUIS METROP.	190
Lepkowski, Hemlata K	BOONE	026
Lepkowski, Marek B	PETTIS	178
Lerner, Bruce	METRO MED-GREATER KC	098
Lerner, Scott A	METRO MED-GREATER KC	098
Leroux, Gene H	B-W-R-C	034
Lerwick, Everett R	ST. LOUIS METROP.	190
Leslie, James T	COLE	058
Leslie, Stephen A	CLAY-PLATTE	050
Lestmann, Henry E	B-W-R-C	034
Letizia, Wayne L	METRO MED-GREATER KC	098
Levanvo, William	JASPER	102
Levelle, Jonathan P	METRO MED-GREATER KC	098
Levey, Harry B	METRO MED-GREATER KC	098
Levi, Bernard	METRO MED-GREATER KC	098
Levin, Marvin E	ST. LOUIS METROP.	190
Levine, Clive	BOONE	026
Levine, Laurence A	ST. LOUIS METROP.	190
Levine, Myron A	DUNKLIN	070
Levine, Richard S	ST. LOUIS METROP.	190
Levitt, Jos	ST. LOUIS METROP.	190
Levitt, Robt G	ST. LOUIS METROP.	190
Levy, Jerome F	ST. LOUIS METROP.	190
Levy, Morton A	ST. LOUIS METROP.	190
Levy, Walter J Jr	BOONE	026
Lewin, W. Howard	ST. LOUIS METROP.	190
Lewis, Frank H	METRO MED-GREATER KC	098
Lewis, J. Eugene	ST. LOUIS METROP.	190
Lewis, Lawrence M	ST. LOUIS METROP.	190
Lewis, Noel R	GREENE	082
Lewis, Revis C	METRO MED-GREATER KC	098
Lewis, Robert D	ST. LOUIS METROP.	190
Lewitton, Solomon	METRO MED-GREATER KC	098
LeBlanc, Leo J	ST. LOUIS METROP.	190
LeFevre, Michael L	BOONE	026
LeFevre, Philip J	GREENE	082
Liang, Jing C	METRO MED-GREATER KC	098
Liao, Kun T	ST. LOUIS METROP.	190
Lichtenfeld, Mark A	ST. LOUIS METROP.	190
Lichtor, Jos M	METRO MED-GREATER KC	098

---

* Doctor of osteopathy

Lichty, Chas A	NORTHEAST	150
Lieb, Francis X	ST. LOUIS METROP.	190
Lieberman, David M	ST. LOUIS METROP.	190
Liebhaber, Harvey	ST. LOUIS METROP.	190
Lila, Aram	CLAY-PLATTE	050
Liliedahl, Roger L	METRO MED-GREATER KC	098
*Lillard, Stephen B	ST CHARLES-LINCOLN	189
*Lillig, James F	CLAY-PLATTE	050
Lilly, Douglas R	ST. LOUIS METROP.	190
Lim, Il T	ST. LOUIS METROP.	190
Lim, Piemsak	ST. LOUIS METROP.	190
Lima, Jose A	ST. LOUIS METROP.	190
Limpiphiphatn, Dhajphong	PERRY-STE GENEVIEVE	174
Limpiphiphatn, Ester P	PERRY-STE GENEVIEVE	174
Lin, C H	C-M-M-R	046
Lin, Chi hsi	GREENE	082
Lin, H T	C-M-M-R	046
Lin, Hsiu-san	ST. LOUIS METROP.	190
Linde, John W	MID-MISSOURI	135
Lindgren, Carleton J	METRO MED-GREATER KC	098
Lindquist, Carl N	METRO MED-GREATER KC	098
Link, Alexander J	ST. LOUIS METROP.	190
Link, Vance E	METRO MED-GREATER KC	098
Linkus, Kevin A	METRO MED-GREATER KC	098
Linn, Richard M	ST. LOUIS METROP.	190
Lins, Robt D	ST. LOUIS METROP.	190
Linsenmeyer, Charles M	ST CHARLES-LINCOLN	189
Lintecum, Frederick B	METRO MED-GREATER KC	098
Linville, Howard E	METRO MED-GREATER KC	098
Lipschitz, Ervin	ST. LOUIS METROP.	190
Lipsitz, Ellis S	ST. LOUIS METROP.	190
Lischwe, Daniel H	ST. LOUIS METROP.	190
Lising, Alexander A	BOONE	026
Liss, Jay L	ST. LOUIS METROP.	190
Littlejohn, Robert T	CLAY-PLATTE	050
Littmann, Lewis E	ST. LOUIS METROP.	190
Litton, Lyle D	GREENE	082
Litton, Lynn O	BOONE	026
Litton, Nancy J	METRO MED-GREATER KC	098
Litwiller, Raymond W	BOONE	026
Litzow, Peter L	ST. LOUIS METROP.	190
Liu, Ben C	METRO MED-GREATER KC	098
Liu, Johns N	METRO MED-GREATER KC	098
Livingston, Don G	ST. LOUIS METROP.	190
Llorens, Alfred S	BOONE	026
Lockard, Orlyn O	BUCHANAN	030
Lockhart, Chas E	GREENE	082
Lockwood, Gary F	METRO MED-GREATER KC	098
Lockwood, Ted E	METRO MED-GREATER KC	098
Loeb, Richard H	GREENE	082
Loeb, Virgil	ST. LOUIS METROP.	190
Loeffel, Ellen S	ST. LOUIS METROP.	190
Loeppky, Carol B	BOONE	026
Loesch, J. John	JASPER	102
Lofgreen, Craig S	METRO MED-GREATER KC	098
Loftus, Loretta S	METRO MED-GREATER KC	098
Logan, Samuel E	ST. LOUIS METROP.	190
Logan-Morrison, Beverly A	ST. LOUIS METROP.	190
Logie, Macdonald B	ST. LOUIS METROP.	190
*Logston, David G	GREENE	082
Logue, John T	BOONE	026
Lohmar, Roland E	BOONE	026
Lohr, Robt W	ST. LOUIS METROP.	190
Lohrentz, Lois H	METRO MED-GREATER KC	098
Loitman, Bernard S	ST. LOUIS METROP.	190
Lombardo, Joseph A	ST. LOUIS METROP.	190
Londe, Alan M	ST. LOUIS METROP.	190
Londe, Sol	ST. LOUIS METROP.	190
London, Stanley L	ST. LOUIS METROP.	190
Lonergan, Warren M	ST. LOUIS METROP.	190
*Long, Chester I	JASPER	102
Long, Curtis W	WEST CENTRAL	214
Long, Frank B	ST. LOUIS METROP.	190
Long, John W	BOONE	026
Long, R S	METRO MED-GREATER KC	098
Long, Timothy P	F-G-W	074
Lonsway, Maurice J Jr.	ST. LOUIS METROP.	190
Lopez, Marvin J	BOONE	026
Lopez, Ruben E	PEMISCOT	170
Lopez-Plata, Roberto	METRO MED-GREATER KC	098
Lord, Richard E	ST. LOUIS METROP.	190
Loren, Michael L	METRO MED-GREATER KC	098
Lorenc, Ernest	GREENE	082
Lorenzo, Edilberto B	METRO MED-GREATER KC	098
Lottes, J. Otto	ST. LOUIS METROP.	190
Lotuaco, Gamaliel G	METRO MED-GREATER KC	098
Loughead, John R	B-W-R-C	034
Loutzenhiser, James K	METRO MED-GREATER KC	098
Love, Gerry A	METRO MED-GREATER KC	098
Lovinger, Warren C Jr.	WEST CENTRAL	214
Lovinggood, Thos A	CAPE GIRARDEAU	042
Lowe, Alvin L	PETTIS	178
Lowe, H. Arch Jr	GREENE	082
Lowenstein, Paul S	ST. LOUIS METROP.	190
Loyd, Earl L	COLE	058
Loynd, Robt C	ST. LOUIS METROP.	190
Lozoff, Richard D	METRO MED-GREATER KC	098
LoPiccolo, Vincent J Sr.	ST. LOUIS METROP.	190
LoPiccolo, Vincent J Jr.	ST. LOUIS METROP.	190
Lubowitz, Herbert	ST. LOUIS METROP.	190
Lucas, Luke W	BOONE	026
Lucas, Thomas G	ST. LOUIS METROP.	190
Luckenbill, Paul T	CLINTON	054
Ludwig, Lee V	WEST CENTRAL	214
Ludwig, Mark A	METRO MED-GREATER KC	098
Ludwig, Mark A	ST. LOUIS METROP.	190
Ludwig, Scott C	GREENE	082
Luechtefeld, Frank	ST. LOUIS METROP.	190
Lueckenhoff, Rebecca R	COLE	058
Luetje, Charles M	METRO MED-GREATER KC	098
Lugo, Saml	ST. LOUIS METROP.	190
Luh, Andrew M	ST. LOUIS METROP.	190
Luisiri, Atchawee	ST. LOUIS METROP.	190
Lum, Jon T	ST. LOUIS METROP.	190
Lund, Herluf G	ST. LOUIS METROP.	190
Lundman, Hugh	GREENE	082
Lurie, Harold H	GREENE	082
Lusk, Chas A	WEST CENTRAL	214
Luther, George A	ST. LOUIS METROP.	190
Lutkewitte, Jos F	PERRY-STE GENEVIEVE	174
Luzecky, Michael H	GREENE	082
Lyddon, Harold R	METRO MED-GREATER KC	098
Lyle, Robt R	LAKE OF THE OZARKS	120
Lyles, Thomas O	ST. LOUIS METROP.	190
Lyman, Edward H	ST. LOUIS METROP.	190
Lynch, Alison M	METRO MED-GREATER KC	098
Lynch, James M	ST. LOUIS METROP.	190
Lynch, Thos W	GREENE	082
Lynxwiler, Chester P	ST. LOUIS METROP.	190
Lyons, Daniel F	GREENE	082
Lyskowski, John C	COLE	058
Lyskowski, Maria M	CAPE GIRARDEAU	042
Lyss, Carl A	ST. LOUIS METROP.	190
Lyss, Stanley B	ST. LOUIS METROP.	190
Lytle, Edwin L	ST. LOUIS METROP.	190

M

Maben, Sam E	METRO MED-GREATER KC	098
Macauley, Bernard J	B-W-R-C	034
Macdonnell, Thos M	WEBSTER	210
Maceren, Rodolfo L	ST. LOUIS METROP.	190
Machefsky, Sidney D	ST. LOUIS METROP.	190
Machek, Otakar	ST. LOUIS METROP.	190
Macinnis, Florence E	METRO MED-GREATER KC	098
Mackey, Richard L	ST. LOUIS METROP.	190
Maclaughlin, James C	JASPER	102
Macleod, Angus	ST. LOUIS METROP.	190
Macnish, James M	ST. LOUIS METROP.	190
MacDonald, Robin R	METRO MED-GREATER KC	098
MacDonald, Robt R Jr.	ST. LOUIS METROP.	190
MacDonald, Wm C	ST. LOUIS METROP.	190
MacGee, Edwin E	METRO MED-GREATER KC	098
MacNaughton, Ralph E	METRO MED-GREATER KC	098
MacNaughton, Robt A	METRO MED-GREATER KC	098
Maddipati, Sreedezi	ST. LOUIS METROP.	190
Madduri, Aruna D	B-W-R-C	034
Madduri, Sivaprasad D	B-W-R-C	034
Madrid, Dominador O	ST. LOUIS METROP.	190
Magaw, David C	D-H-P-D	066
Magee, Robt L	WEST CENTRAL	214
Magee, W. Edwin	ST. LOUIS METROP.	190
Maginn, Richard L	BUCHANAN	030
Magness, Wm C	WEST CENTRAL	214

---

* Doctor of osteopathy.

Magruder, Lyell M	WEST CENTRAL	214
Mahadevan, Jambunathan	ST. LOUIS METROP.	190
Mahboubi, Aziz O	SEMO	202
Mahe, Geo A	ST. LOUIS METROP.	190
Maher, Robt W	GREENE	082
Maher, Thos F	ST. LOUIS METROP.	190
Mahmoud, Said F	METRO MED-GREATER KC	098
*Mahoney, Michael C	GREENE	082
Mainini, Stephen E	ST. LOUIS METROP.	190
Mais, Thomas E	METRO MED-GREATER KC	098
Maitz, Carlos A	ST. LOUIS METROP.	190
Major, Troy E	GREENE	082
Majors, Patrick F	ST. LOUIS METROP.	190
Majzoub, Hish S	JASPER	102
Malik, Sarfraz A	ST. LOUIS METROP.	190
Maliszewski, James A	METRO MED-GREATER KC	098
Mallouk, Alexander G	METRO MED-GREATER KC	098
Mallow, James E	METRO MED-GREATER KC	098
Malmberg, Virgil L	ST. LOUIS METROP.	190
Maloney, Robt M	ST. LOUIS METROP.	190
Malt, Sherwin H	ST. LOUIS METROP.	190
Maltby, James D	BOONE	026
Manansala, Antonio Q	ST. LOUIS METROP.	190
Mandler, Geo	GRAND RIVER	078
Mangalat, Narayanan K	JASPER	102
Mangum, William B	METRO MED-GREATER KC	098
Mangunta, Vijaya K	CAPE GIRARDEAU	042
Manion, Maria E	ST. LOUIS METROP.	190
Manion, Thos S	METRO MED-GREATER KC	098
Manire, John E	JASPER	102
Mann, James K	NORTHEAST	150
Mann, Kenneth R	CLAY-PLATTE	050
Mannis, Charles I	ST. LOUIS METROP.	190
Manske, Paul R	ST. LOUIS METROP.	190
Mantell, Jack M	GREENE	082
Mantese, Vito A	ST. LOUIS METROP.	190
Mantovani, John F	ST. LOUIS METROP.	190
Manubay, Teodoro	DUNKLIN	070
Manuel, Louis C	METRO MED-GREATER KC	098
Manusmare, Usha P	MINERAL AREA	138
Maple, Francis M	GREENE	082
Maranan, Diosdado L	JEFFERSON	106
Maravilla, Levy M	ST. LOUIS METROP.	190
Marbarger, John P Jr.	ST. LOUIS METROP.	190
Marchiando, Albert W	F-G-W	074
Marchosky, J. Alex	ST. LOUIS METROP.	190
Marcus, Morris D	ST. LOUIS METROP.	190
Mardini, Edward E	MINERAL AREA	138
Margolis, David M	ST. LOUIS METROP.	190
Margolis, Robert P	ST. LOUIS METROP.	190
Marienfeld, Robert D	BOONE	026
Marietta, William G	CAPE GIRARDEAU	042
Marre, Joyce E	ST. LOUIS METROP.	190
Marrs, David B	ST CHARLES-LINCOLN	189
Marsh, Alice	METRO MED-GREATER KC	098
Marsh, Jeffrey L	ST. LOUIS METROP.	190
Marshall, Hal E	METRO MED-GREATER KC	098
Marshall, Jay P II	ST. LOUIS METROP.	190
Marshall, William H	COLE	058
Marshall, William G Jr.	ST. LOUIS METROP.	190
Marshall, William G	HOWARD	094
Marston, F. James	BUCHANAN	030
Marti, Larry B	MID-MISSOURI	135
Martin, Clarence A	JASPER	102
Martin, Danl J	ST. LOUIS METROP.	190
Martin, David S	ST. LOUIS METROP.	190
Martin, Frederick W	ST. LOUIS METROP.	190
Martin, John N	BUCHANAN	030
Martin, Mark W	METRO MED-GREATER KC	098
Martin, Richard A	CAPE GIRARDEAU	042
Martin, Scott A	ST. LOUIS METROP.	190
Martin, Victoria L	METRO MED-GREATER KC	098
Martin, Virginia L	ST. LOUIS METROP.	190
Martin, Wendell J	PIKE	186
Martinez, John R	METRO MED-GREATER KC	098
Martirez, Emmanuel	ST. LOUIS METROP.	190
Marty, David R	COLE	058
Martz, John C	ST. LOUIS METROP.	190
Maslan, Mark J	METRO MED-GREATER KC	098
Mass, Joan H	ST. LOUIS METROP.	190
Massie, Edward	ST. LOUIS METROP.	190
Masters, Edwin J	SEMO	202
Masters, Wm H	ST. LOUIS METROP.	190
Masucci, Jos M	METRO MED-GREATER KC	098
Mathew, Ruby	ST. LOUIS METROP.	190
Matias, Delia A	BOONE	026
Matile, Gerald U	METRO MED-GREATER KC	098
Matovich, Violet B	METRO MED-GREATER KC	098
Matsuba, Howard M	ST. LOUIS METROP.	190
Matta, Camille S	METRO MED-GREATER KC	098
Matthews, John G	ST. LOUIS METROP.	190
Matthews, John I	COLE	058
Maughs, Sydney B	ST. LOUIS METROP.	190
Mauldin, Olin B JR	CAPE GIRARDEAU	042
Maule, William F	BOONE	026
Maulik, Dev	METRO MED-GREATER KC	098
Maupin, Kathy C	ST. LOUIS METROP.	190
Maxson, Katherine A	ST. LOUIS METROP.	190
Maxson, Theodore R	JOHNSON	110
Maxwell, Richard W	ST. LOUIS METROP.	190
May, Albert L	B-W-R-C	034
Mayer, John H	METRO MED-GREATER KC	098
Mayer, Robt A	ST. LOUIS METROP.	190
Mayes, Ben R	ST. LOUIS METROP.	190
Mayo, Joseph W	BOONE	026
Mayuga, Edgardo G	ST. LOUIS METROP.	190
Mayuga, Laureano G	SOUTH CENTRAL	206
Mayus, Joseph L	GREENE	082
McAdam, Chas R	ST. LOUIS METROP.	190
McAfee, C. Alan	ST. LOUIS METROP.	190
McAfee, Gordon	GREENE	082
McAlhany, Howard J	GREENE	082
McAlister, Wm H	ST. LOUIS METROP.	190
McBride, Nancy M	METRO MED-GREATER KC	098
McBurney, Chas A	SALINE	198
McCabe, Eugene J	ST CHARLES-LINCOLN	189
McCaffree, Mary K	COLE	058
McCall, Edwin L	ST. LOUIS METROP.	190
McCalla, John P	CLAY-PLATTE	050
McCallister, Ben D	METRO MED-GREATER KC	098
McCanse, Andrew	METRO MED-GREATER KC	098
McCanse, Lynn R	CLAY-PLATTE	050
McCarthy, Christopher	ST. LOUIS METROP.	190
McCarthy, John M	ST. LOUIS METROP.	190
McClanahan, Robt C	METRO MED-GREATER KC	098
McClennan, Bruce L	ST. LOUIS METROP.	190
McCluggage, Newton C	CLAY-PLATTE	050
McConahay, David R	METRO MED-GREATER KC	098
McConchie, James E	METRO MED-GREATER KC	098
McCool, James F	ST. LOUIS METROP.	190
McCorcle, Marcus D	GREENE	082
McCord, E. Scott	BOONE	026
McCorkle, E L	SALINE	198
McCormack, Robert E	METRO MED-GREATER KC	098
McCormick, James E	CLAY-PLATTE	050
McCown, Allan H	ST. LOUIS METROP.	190
McCoy, Frederick J	METRO MED-GREATER KC	098
McCoy, Warren R	PEMISCOT	170
McCraw, Doyle C	D-H-P-D	066
McCray, Glen M	GREENE	082
McCray, Stephen A	CLAY-PLATTE	050
McCroskey, Lon C	METRO MED-GREATER KC	098
McDaniel, John R	BUCHANAN	030
McDavid, Robert E	BOONE	026
McDermott, Alfred E	PERRY-STE GENEVIEVE	174
McDonald, Eugene F	CAPE GIRARDEAU	042
McDonald, Herbert L	METRO MED-GREATER KC	098
McDonald, James H	METRO MED-GREATER KC	098
McDonald, Margaret E	JASPER	102
McDonald, Michael G	JASPER	102
McDonald, Wallace	BUCHANAN	030
McDonald, Wilbur P	BUCHANAN	030
McDonnell, John F	METRO MED-GREATER KC	098
McElroy, George L III	COLE	058
McElroy, Glenn L	BOONE	026
McFadden, David M	B-W-R-C	034
McFadden, Gene A	LAFAYETTE-RAY	118
McFarland, H R	METRO MED-GREATER KC	098
McFarland, M D	METRO MED-GREATER KC	098
McFarland, Rodney J	OZARKS	166
McGannon, Paul T	METRO MED-GREATER KC	098
McGinnis, Wm F	ST. LOUIS METROP.	190
McGinty, Chas P	CAPE GIRARDEAU	042
McGonigle, James P	JASPER	102

---

* Doctor of osteopathy.

McGonigle, Michael M	JASPER	102
McGovney, Janice K	CLAY-PLATTE	050
McGuire, Thos H	METRO MED-GREATER KC	098
McGunegle, Daniel E	METRO MED-GREATER KC	098
McGurk, Thomas E	METRO MED-GREATER KC	098
McHardy, Bryson R Jr.	NORTHEAST	150
McIntosh, Donald E	METRO MED-GREATER KC	098
McIntosh, Douglas A Jr	CAPE GIRARDEAU	042
McIntosh, Michele C	METRO MED-GREATER KC	098
McIntyre, John D	METRO MED-GREATER KC	098
McKee, Frank E	METRO MED-GREATER KC	098
McKee, Wallace P	METRO MED-GREATER KC	098
McKeel, Thos B	METRO MED-GREATER KC	098
McKinley, Lois J	METRO MED-GREATER KC	098
McKinney, Daniel C	GREENE	082
McKinney, Joe K	ST. LOUIS METROP.	190
McKinney, John W	ST. LOUIS METROP.	190
McKinney, William D Jr.	MINERAL AREA	138
McKinsey, David S	METRO MED-GREATER KC	098
McKnelly, Wm V	METRO MED-GREATER KC	098
McLane, Jerry F	B-W-R-C	034
McLaren, A. Lesley	ST. LOUIS METROP.	190
McLaughlin, Durnell	METRO MED-GREATER KC	098
McLaughlin, Richard D	GREENE	082
McLaurin, Robert L Jr.	GREENE	082
McLemore, Willie O	METRO MED-GREATER KC	098
McLeod, Alan J	METRO MED-GREATER KC	098
McMillan, David L	OZARKS	166
McMillen, James J	BUCHANAN	030
McMullin, Forbes A	ST. LOUIS METROP.	190
McMurray, Earlene H	METRO MED-GREATER KC	098
McMurray, Herbert C	ST. LOUIS METROP.	190
McNalley, Michael	ST. LOUIS METROP.	190
McNamara, Gerald R	CLAY-PLATTE	050
McNamara, John J	ST. LOUIS METROP.	190
McNutt, Theodore L	METRO MED-GREATER KC	098
McPhee, Mark S	METRO MED-GREATER KC	098
McPhee, Wm R	CLAY-PLATTE	050
McQueary, Frederick G	GREENE	082
McWoods, Emmett	METRO MED-GREATER KC	098
Meador, James R	ST. LOUIS METROP.	190
Meadows, C. Douglas	ST. LOUIS METROP.	190
Mechlin, David C	BOONE	026
Mechlin, Norman J	GREENE	082
Medler, John F	ST. LOUIS METROP.	190
Medler, P. Louis	ST. LOUIS METROP.	190
Medley, Benjamin E	METRO MED-GREATER KC	098
Medlicott, William J	METRO MED-GREATER KC	098
Medrano, Cresenciano A	PERRY-STE GENEVIEVE	174
Medrano, Lina E	PERRY-STE GENEVIEVE	174
Meegan, Robt J	METRO MED-GREATER KC	098
Mehaffy, Orville A	JASPER	102
Mehan, Donald J	ST. LOUIS METROP.	190
Mehlhorn, Gary L	GREENE	082
Mehra, Rachna	ST. LOUIS METROP.	190
Mehra, Ravinder Jr.	ST. LOUIS METROP.	190
Mehra, Subadh K	ST. LOUIS METROP.	190
Mehra, Usha	ST. LOUIS METROP.	190
Meier, Francis X	COLE	058
Meiklejohn, Duncan C	METRO MED-GREATER KC	098
Meinberg, Wm H	ST. LOUIS METROP.	190
Meiners, David J	ST. LOUIS METROP.	190
Meiners, Paul N	ST. LOUIS METROP.	190
Meiners, Theodore M	ST. LOUIS METROP.	190
Meldi, Dominic M	GREENE	082
Melgaard, Sven R	METRO MED-GREATER KC	098
Melia, B J Jr.	METRO MED-GREATER KC	098
Mell, Roger L	ST. LOUIS METROP.	190
*Mellies, Steven D	CAPE GIRARDEAU	042
Melson, G. Leland	ST. LOUIS METROP.	190
Meltz, Gary J	ST CHARLES-LINCOLN	189
Memken, John A	NORTHEAST	150
Menchetti, Donald E	GREENE	082
Mendelsohn, George E	ST. LOUIS METROP.	190
Mendelsohn, Robt S	ST. LOUIS METROP.	190
Mendelson, David F	ST. LOUIS METROP.	190
Mendez, Maria A	GREENE	082
Mendonsa, Lawrence E	ST. LOUIS METROP.	190
Menendez, Silvana Y	ST CHARLES-LINCOLN	189
Mengel, Charles E	C-M-M-R	046
Menne, Marvin C	MINERAL AREA	138
Mentel, John J	ST CHARLES-LINCOLN	189
Mentgen, Carl N	GREENE	082
Meredith, William R	JASPER	102
Merenda, Frank J	ST. LOUIS METROP.	190
Merenda, Sam J	ST. LOUIS METROP.	190
Merrims, Theodore	ST. LOUIS METROP.	190
Merritt, Burch A	ST. LOUIS METROP.	190
Mertz, Janet S	METRO MED-GREATER KC	098
Mested, Peter H	METRO MED-GREATER KC	098
Mestres, Hugh M	ST. LOUIS METROP.	190
Metzl, Kurt	METRO MED-GREATER KC	098
Metzler, Michael H	BOONE	026
Meyer, Harry E	ST. LOUIS METROP.	190
Meyer, Jay	ST. LOUIS METROP.	190
Meyer, Jerry L	LAFAYETTE-RAY	118
Meyer, John S	ST. LOUIS METROP.	190
Meyer, John W	GREENE	082
Meyer, Melvin E	ST. LOUIS METROP.	190
Meyer, Paul W	METRO MED-GREATER KC	098
Meyer, Robert C	ST. LOUIS METROP.	190
Meyer, Wayne W	ST. LOUIS METROP.	190
Meyerrose, Gary E	ST. LOUIS METROP.	190
Meyers, Elsie F	ST. LOUIS METROP.	190
Meyers, Jerry R	ST CHARLES-LINCOLN	189
Meyers, John B	ST. LOUIS METROP.	190
Meyers, Lee G	BOONE	026
Meyers, Robt W	ST. LOUIS METROP.	190
Michael, Harvey R	GREENE	082
*Michael, Roy A	COLE	058
Michael, Vernon E	ST. LOUIS METROP.	190
Michaelree, John F	ST. LOUIS METROP.	190
Michaels, Robert H	GREENE	082
Michelson, Richard B	METRO MED-GREATER KC	098
Mick, Robert L	ST. LOUIS METROP.	190
Middleton, Jerry N	ST. LOUIS METROP.	190
Middleton, John W	PIKE	186
Mier, Thos M	ST. LOUIS METROP.	190
Mihalevich, John A Jr	GREENE	082
Milder, Barry D	ST. LOUIS METROP.	190
Milder, Benj	ST. LOUIS METROP.	190
Miles, Geo O	METRO MED-GREATER KC	098
Miles, Judith H	BOONE	026
Miles, Paul W	ST. LOUIS METROP.	190
Miles, Wayne B	GREENE	082
Milgram, Byron A	METRO MED-GREATER KC	098
Mill, Wm B JR	ST. LOUIS METROP.	190
Millangue, Consolacion	ST. LOUIS METROP.	190
Millangue, Rafael M	ST. LOUIS METROP.	190
Miller, Burney A	MINERAL AREA	138
Miller, Charles W	ST. LOUIS METROP.	190
Miller, Chas Jr.	ST. LOUIS METROP.	190
Miller, D H	C-M-M-R	046
Miller, David D	GREENE	082
Miller, Donald	COLE	058
Miller, Edward J	ST. LOUIS METROP.	190
Miller, Geoffrey W	ST. LOUIS METROP.	190
Miller, Gerald L Jr.	METRO MED-GREATER KC	098
Miller, Harry G	HENRY	086
Miller, James E	ST. LOUIS METROP.	190
Miller, John T	METRO MED-GREATER KC	098
Miller, Jule P	ST. LOUIS METROP.	190
Miller, Leroy J	BOONE	026
Miller, Michael R	METRO MED-GREATER KC	098
Miller, Robt N	ST. LOUIS METROP.	190
Miller, William D	SEMO	202
Miller, William D	BUCHANAN	030
Miller, Wilson H	METRO MED-GREATER KC	098
Miller, Wm V	ST. LOUIS METROP.	190
Millet, Ruth E	METRO MED-GREATER KC	098
Millwee, Elizabeth M	BOONE	026
Milne, Jay L	GREENE	082
Milstead, Kenneth L Jr.	ST. LOUIS METROP.	190
Milster, Clyde R	ST. LOUIS METROP.	190
Miltenberger, Paul C	DUNKLIN	070
Minkoff, I. Monica	ST CHARLES-LINCOLN	189
Minnigerode, Lana K	METRO MED-GREATER KC	098
Minnigerode, Turner L	METRO MED-GREATER KC	098
Mir, Abdul R	METRO MED-GREATER KC	098
Mirbaha, Mitchell M	ST. LOUIS METROP.	190
Mischnick, Carol R	ST. LOUIS METROP.	190
Mishkin, Marvin R	ST. LOUIS METROP.	190
Miskovsky, Emil F	ST. LOUIS METROP.	190
Missey, Wilburn C	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Mistry, Tehmton S	ST. LOUIS METROP.	190
Mitchell, Andrew D	METRO MED-GREATER KC	098
Mitchell, Franklin L	BOONE	026
Mitchell, John D	METRO MED-GREATER KC	098
Mitchell, Lynn D	BOONE	026
Mitchell, Nevada A	METRO MED-GREATER KC	098
Mitchell, Robt H	METRO MED-GREATER KC	098
Mitchell, Roy E	MID-MISSOURI	135
Mitchell, Thos J	F-G-W	074
Mithen, Francis A	ST. LOUIS METROP.	190
Mitra, Nirmal K	METRO MED-GREATER KC	098
Mittleman, Frederick S	METRO MED-GREATER KC	098
Mitzelfelt, Donald E	BUCHANAN	030
Mizell, Myron W	GREENE	082
Modin, Jeffrey J	ST. LOUIS METROP.	190
Moellenhoff, Robt W	F-G-W	074
Moeller, F. Delbert	ST CHARLES-LINCOLN	189
Moeller, Randall J	BUCHANAN	030
Mohapatra, Raj N	ST CHARLES-LINCOLN	189
Mohrman, Raymond F	ST. LOUIS METROP.	190
Mohs, Frank R	ST. LOUIS METROP.	190
Molchan, James L	D-H-P-D	066
Molden, C. Scott	ST. LOUIS METROP.	190
Molden, Chas A	ST. LOUIS METROP.	190
Molina, Roy	BOONE	026
Monafo, Wm W	ST. LOUIS METROP.	190
Monaghan, Greg G	BOONE	026
Mongan, James J	METRO MED-GREATER KC	098
Monroe, C. Dean	BOONE	026
Monroe, Phillip L	GREENE	082
Montani, Chas	ST. LOUIS METROP.	190
Monteleone, James A	ST. LOUIS METROP.	190
Montellano, Arturo H	OZARKS	166
Montello, Samuel A	METRO MED-GREATER KC	098
Monterubio, Fred R Jr.	ST. LOUIS METROP.	190
Montes, Arturo C	ST. LOUIS METROP.	190
Montes De Oca, Julio	ST. LOUIS METROP.	190
Montgomery, Austin F	ST. LOUIS METROP.	190
Montgomery, John H III	JASPER	102
Montgomery, Michael A	METRO MED-GREATER KC	098
Montie, Jos E	BOONE	026
Monzon, Carlos M	BOONE	026
Moolsintong, Pornchai	ST. LOUIS METROP.	190
Moon, Thos R Jr.	ST. LOUIS METROP.	190
Mooney-Smith, Patricia	METRO MED-GREATER KC	098
Moore, Alva	ST. LOUIS METROP.	190
Moore, Candice A	WEST CENTRAL	214
Moore, David L	METRO MED-GREATER KC	098
Moore, De Armond	GREENE	082
Moore, Harry G Jr.	ST. LOUIS METROP.	190
Moore, Jack D	METRO MED-GREATER KC	098
Moore, John M	METRO MED-GREATER KC	098
Moore, Kelly R	JASPER	102
Moore, Mary Joan	METRO MED-GREATER KC	098
Moore, Michael T	WEST CENTRAL	214
Moore, Michael R	SOUTH CENTRAL	206
Moore, Orin A	METRO MED-GREATER KC	098
Moore, Richard E	CAPE GIRARDEAU	042
Moore, Thomas B	JASPER	102
Moore, Walter L	ST. LOUIS METROP.	190
Mora, Alvaro	ST. LOUIS METROP.	190
Moran, Christopher J	ST. LOUIS METROP.	190
Moran, Thos M	ST. LOUIS METROP.	190
Morantz, Robert A	METRO MED-GREATER KC	098
Moranville, Benedict A	BUCHANAN	030
Moranz, John W	B-W-R-C	034
Morehead, Wm E	DUNKLIN	070
Morehouse, Paul D	B-W-R-C	034
Morest, F S	METRO MED-GREATER KC	098
Morey, Kirk P	ST. LOUIS METROP.	190
Morgan, David B	METRO MED-GREATER KC	098
Morgan, Dix R	CAPE GIRARDEAU	042
Morgan, Harry C	ST. LOUIS METROP.	190
Morgan, John L	GREENE	082
Morgan, Stephan S	ST. LOUIS METROP.	190
Morgan, Willy J C	ST. LOUIS METROP.	190
Morgan, Wm R	METRO MED-GREATER KC	098
Moritz, Gerald	ST. LOUIS METROP.	190
Morley, Mary A	ST. LOUIS METROP.	190
*Morley, Ronald F	COLE	058
Morris, Alan H	ST. LOUIS METROP.	190
Morris, J H	METRO MED-GREATER KC	098
Morris, John J	BOONE	026
Morris, R. William	ST. LOUIS METROP.	190
Morris, Terry V	METRO MED-GREATER KC	098
Morrison, Arlen E	ST. LOUIS METROP.	190
Morrison, Donald H	METRO MED-GREATER KC	098
Morrison, Richard A	METRO MED-GREATER KC	098
Morrison, Thos A	OZARKS	166
Morrison, Tom V	TRI-LAKES	208
Morrow, N. Eugene	GREENE	082
Morse, John P	BUCHANAN	030
Mortensen, Frede	ST. LOUIS METROP.	190
Morton, Paul C	GREENE	082
Morton, Wayne L	WEST CENTRAL	214
Mosbacher, Hugh E	METRO MED-GREATER KC	098
Mosby, Larry D	BOONE	026
Moseley, F. Thomas	GREENE	082
Moses, Robt A	ST. LOUIS METROP.	190
Mosley, Julian C	ST. LOUIS METROP.	190
Moss, Paul	METRO MED-GREATER KC	098
Motchan, Dennis G	ST. LOUIS METROP.	190
Mothershead, John L	BUCHANAN	030
Motier, Thomas H	ST. LOUIS METROP.	190
Mou, Bin	WEST CENTRAL	214
Mou, Susan M	METRO MED-GREATER KC	098
Mowrey, Wm O	ST. LOUIS METROP.	190
Moya, Carlos E	BUCHANAN	030
Moylan, Charles V	METRO MED-GREATER KC	098
Muchnick, Richard L	ST. LOUIS METROP.	190
Muckerman, Richard I	ST. LOUIS METROP.	190
Muckerman, Richard C II	ST. LOUIS METROP.	190
Muegge, F. David	GREENE	082
Muelleman, Peter J	METRO MED-GREATER KC	098
Muelleman, Robert L	METRO MED-GREATER KC	098
Mueller, Adolph R	JASPER	102
Mueller, Clarence E	ST. LOUIS METROP.	190
Mueller, Howard A	ST. LOUIS METROP.	190
Mueller, John J	ST. LOUIS METROP.	190
Mueller, Jos A	ST. LOUIS METROP.	190
Mueller, Martin J	METRO MED-GREATER KC	098
Mueller, Morris A	ST. LOUIS METROP.	190
Mueller, Robt J	ST. LOUIS METROP.	190
Mueller, Wilbur K	ST. LOUIS METROP.	190
Muench, Albert H	BUCHANAN	030
Muhammud, Faquir	ST. LOUIS METROP.	190
Muhm, Harvard Y	ST CHARLES-LINCOLN	189
Mukerji, Vaskar	BOONE	026
Mullarky, Wilbur A	ST. LOUIS METROP.	190
Mullen, Jack	MINERAL AREA	138
Mullen, Leo M	METRO MED-GREATER KC	098
Mullen, Mary E	AUDRAIN	014
Muller, Milton	METRO MED-GREATER KC	098
Mullican, Chas N	BUCHANAN	030
Mullins, Bernard L	CLAY-PLATTE	050
Mullins, John E	ST. LOUIS METROP.	190
Muncy, Gary A	ST. LOUIS METROP.	190
Mundy, Wm L	METRO MED-GREATER KC	098
Munger, Michael L	METRO MED-GREATER KC	098
Munyan, Earl A	METRO MED-GREATER KC	098
Muraywid, Ahmad H	AUDRAIN	014
Murdock, Nathaniel	ST. LOUIS METROP.	190
Murney, Joseph	F-G-W	074
Murphy, Daniel J	ST. LOUIS METROP.	190
Murphy, Everett M III	METRO MED-GREATER KC	098
Murphy, James A	BUCHANAN	030
Murphy, Robt J	METRO MED-GREATER KC	098
Murphy, Wm A Jr.	ST. LOUIS METROP.	190
Murrell, H. Jerry	BOONE	026
Muscato, Joseph J	BOONE	026
Muscato, Mary S	BOONE	026
Muschany, Norman K	ST. LOUIS METROP.	190
Musick, William D	BOONE	026
Mustoe, Thomas A	ST. LOUIS METROP.	190
Mutchnick, Norman	METRO MED-GREATER KC	098
Muther, Richard S	METRO MED-GREATER KC	098
Muzaffaruddin, Mohammed	ST CHARLES-LINCOLN	189
Myers, Carl M	METRO MED-GREATER KC	098
Myers, David W	CLAY-PLATTE	050
Myers, Gary H	ST. LOUIS METROP.	190
Myers, Geo H	METRO MED-GREATER KC	098
Myers, Ivan T	ST. LOUIS METROP.	190
Myers, James M	MID-MISSOURI	135
Myers, John S	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

*Myers, Ronald C	JASPER	102
Myron, Mark C	METRO MED-GREATER KC	098

N

Nadinola, Chennaiah C	AUDRAIN	014
Nagle, Michael G	JASPER	102
Nagy, Al L	B-W-R-C	034
Nahm, Chung C	ST. LOUIS METROP.	190
Naidu, Gonuguntla	ST. LOUIS METROP.	190
Naime, Mansour J	METRO MED-GREATER KC	098
Nakra, Rashmi R	ST. LOUIS METROP.	190
Nanson, James D	BOONE	026
Narayan, Dilip L	ST. LOUIS METROP.	190
Narkiewicz, Lawrence S	ST. LOUIS METROP.	190
Naseer, Riaz A	ST. LOUIS METROP.	190
Nash, Helen E	ST. LOUIS METROP.	190
Nash, Homer E Jr.	ST. LOUIS METROP.	190
Nathan, Lester J	ST. LOUIS METROP.	190
Naumovich, Anna D	ST. LOUIS METROP.	190
Navato, Jose R	METRO MED-GREATER KC	098
Near, David M	ST. LOUIS METROP.	190
Neblett, Lewis M	GREENE	082
Neese, Allen L	BOONE	026
Nelson, Bentley A	METRO MED-GREATER KC	098
Nelson, David E	GREENE	082
Nelson, Donald C	GREENE	082
Nelson, J. Roger	ST. LOUIS METROP.	190
Nelson, James S	ST. LOUIS METROP.	190
Nelson, Paul W	METRO MED-GREATER KC	098
Nelson, Richard E	METRO MED-GREATER KC	098
Nelson, Susan J	ST. LOUIS METROP.	190
Nemec, Edward S	ST. LOUIS METROP.	190
Nemec, Stanley S	ST. LOUIS METROP.	190
Nepute, James A	ST. LOUIS METROP.	190
Ness, Carl K	BUCHANAN	030
Nesselrode, John H	METRO MED-GREATER KC	098
Neu, Leo T III	GREENE	082
Neu, Leo T Jr	GREENE	082
Neuman, Neal	ST. LOUIS METROP.	190
*Newhouse, Richard G	CLAY-PLATTE	050
Newman, Mary J	OZARKS	166
Newman, Matthew	ST. LOUIS METROP.	190
Newman, Robt L	METRO MED-GREATER KC	098
Newman, William R	JASPER	102
Newport, Gerald	ST. LOUIS METROP.	190
Newton, Gordon	ST. LOUIS METROP.	190
Nguyen, Helen T	BUCHANAN	030
Nguyen, Lan K	LAFAYETTE-RAY	118
Nguyen, Loi D	ST. LOUIS METROP.	190
Nguyen, Tuyen M	DUNKLIN	070
Nicholas, Stephen P	ST. LOUIS METROP.	190
Nicholis, G. Ronald	METRO MED-GREATER KC	098
Nichols, David A	CALLAWAY	038
Nichols, Ramon L	METRO MED-GREATER KC	098
Nichols, W. Kirt	BOONE	026
Nickel, James F	ST. LOUIS METROP.	190
Nickell, Margaret B	METRO MED-GREATER KC	098
Nickell, Michael D	JASPER	102
Nicolai, Chas H	ST. LOUIS METROP.	190
Niedermeyer, Edward L	NORTHWEST	158
Niedermeyer, Geo J	ST. LOUIS METROP.	190
Nielsen, Carl H	ST. LOUIS METROP.	190
Nielsen, Mark A	METRO MED-GREATER KC	098
Nielson, Michael H	METRO MED-GREATER KC	098
Nieman, John L	METRO MED-GREATER KC	098
Nierling, Dean A	BOONE	026
Niesen, Anna R	ST. LOUIS METROP.	190
Niesen, Frank J	ST. LOUIS METROP.	190
Niesen, Thomas E	ST. LOUIS METROP.	190
Nieuwenhuizen, Maarten	BOONE	026
Nigh, Chas A	ST. LOUIS METROP.	190
Nigro, Thomas L	METRO MED-GREATER KC	098
Nishi, Toshio	ST. LOUIS METROP.	190
Nix, J. Gustavo	D-H-P-D	066
Nixon, Edward E	GRAND RIVER	078
Noback, Richardson K	METRO MED-GREATER KC	098
Noble, Colleen I	GREENE	082
Noble, James S	GREENE	082
Nolan, Chas J	ST. LOUIS METROP.	190
Noller, Henry W	ST. LOUIS METROP.	190
Nolph, Georgia J	BOONE	026
Noltensmeyer, Milton H	METRO MED-GREATER KC	098
Nomura, Roy M	ST. LOUIS METROP.	190
Nordlicht, Scott M	ST. LOUIS METROP.	190
Norland, Chas C	ST. LOUIS METROP.	190
Norwood, Russell W	ST. LOUIS METROP.	190
Nouhan, Jos G Jr.	ST. LOUIS METROP.	190
Nourbakhsh, Mahmoud M	CLAY-PLATTE	050
Nouri, Hassan	ST. LOUIS METROP.	190
Novack, Mark A	ST. LOUIS METROP.	190
Nuetzel, John A	ST. LOUIS METROP.	190
Nunez, Maria A	ST. LOUIS METROP.	190
Nussbaum, Larry	CLAY-PLATTE	050
Nwaobasi, Sam	ST. LOUIS METROP.	190

O

O'Brien, Edward J Jr.	ST. LOUIS METROP.	190
O'Brien, Robert M	ST. LOUIS METROP.	190
O'Connell, Timothy	ST. LOUIS METROP.	190
O'Connor, Edward F	LAKE OF THE OZARKS	120
O'Connor, John J	F-G-W	074
O'Connor, Robt J	ST. LOUIS METROP.	190
O'Connor, William B	BUCHANAN	030
O'Donnell, Francis E	ST. LOUIS METROP.	190
O'Farrell, Thos P	METRO MED-GREATER KC	098
O'Hearne, John J	METRO MED-GREATER KC	098
O'Keefe, John J	ST. LOUIS METROP.	190
O'Keefe, Jos D	ST. LOUIS METROP.	190
O'Keefe, Stephen L	BOONE	026
O'Kell, Richard T	METRO MED-GREATER KC	098
O'Malley, James F	METRO MED-GREATER KC	098
O'Neal, Lawrence W	ST. LOUIS METROP.	190
O'Neal, Patricia L	ST. LOUIS METROP.	190
O'Neil, James H	METRO MED-GREATER KC	098
O'Neil, Jerome H Jr.	ST. LOUIS METROP.	190
O'Reilly, D. Elliott	ST. LOUIS METROP.	190
O'Sullivan, Danl F	ST. LOUIS METROP.	190
Oakley, Margaret M	ST. LOUIS METROP.	190
Occeno, Victor G	OZARKS	166
Oehler, William F	CAPE GIRARDEAU	042
Oertli, Robert	ST. LOUIS METROP.	190
Oetter, Donald L	ST. LOUIS METROP.	190
Oglesby, Richard B	ST. LOUIS METROP.	190
Ohlms, David L	ST. LOUIS METROP.	190
Ojascastro, Alejandro C	ST. LOUIS METROP.	190
Okun, Edward	ST. LOUIS METROP.	190
Oleson, Gale B	METRO MED-GREATER KC	098
Olive, Geo C	OZARKS	166
Oliver, George A	MINERAL AREA	138
Olk, R. Joseph	ST. LOUIS METROP.	190
Ollinger, Henry G	ST. LOUIS METROP.	190
*Olmstead, John P	CLAY-PLATTE	050
Olson, E. Rule	GREENE	082
Olson, Lloyd C	METRO MED-GREATER KC	098
Olson, Richard O	ST CHARLES-LINCOLN	189
Olson, Robert J	GREENE	082
Olson, Steven A	BOONE	026
Omell, Gary H	ST. LOUIS METROP.	190
Ong, Eng L	ST. LOUIS METROP.	190
Ong, Ofelia S	ST. LOUIS METROP.	190
Onken, Henry D	ST. LOUIS METROP.	190
Oppenheimer, Henry E	ST. LOUIS METROP.	190
Oppermann, Karen J	METRO MED-GREATER KC	098
*Orear, James E	JASPER	102
Orenstein, Joseph M	ST. LOUIS METROP.	190
Orgel, M. Norman	ST. LOUIS METROP.	190
Orgel, Michael	ST. LOUIS METROP.	190
Orille, Oscar P	ST. LOUIS METROP.	190
Oro, John J	BOONE	026
Orsay, Paul K	ST. LOUIS METROP.	190
Ortbals, David W	ST. LOUIS METROP.	190
Orth, O. Gerald	BOONE	026
Ortiguero, Leopoldo M	ST. LOUIS METROP.	190
Ortillo, Amado P	ST. LOUIS METROP.	190
Ortmeyer, Leroy F	ST. LOUIS METROP.	190
Osborne, Jere O	METRO MED-GREATER KC	098
Osbourn, Richard A	CALLAWAY	038
Ossman, Julian A	COLE	058
Ost, Mark D	METRO MED-GREATER KC	098
Ostapowicz, Frank	ST. LOUIS METROP.	190
Ostapowicz, Tamara L	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Ostergaard, Daniel J	METRO MED-GREATER KC	098
Ott, F. Thomas	ST. LOUIS METROP.	190
Ott, Harold J	ST. LOUIS METROP.	190
Ott, Wm J	ST. LOUIS METROP.	190
Otto, Thomas G	CAPE GIRARDEAU	042
Overend, Don S	GREENE	082
Overesch, Harry B	METRO MED-GREATER KC	098
Overholser, Milton O	BOONE	026
Overman, John C	METRO MED-GREATER KC	098
Owen, James W	ST. LOUIS METROP.	190
Owen, Robt F	ST. LOUIS METROP.	190
Owens, Dennis P	METRO MED-GREATER KC	098
Owens, James L	METRO MED-GREATER KC	098
Owens, John H	PETTIS	178
Owens, Richard L	METRO MED-GREATER KC	098
Owens, Robt H	METRO MED-GREATER KC	098
Owens, Wm D	ST. LOUIS METROP.	190
Oxley, Dwight K	METRO MED-GREATER KC	098
Ozar, Milton B	METRO MED-GREATER KC	098
Ozmat, Orhan M	ST. LOUIS METROP.	190

P

Pacheco, Jose M	GREENE	082
Packman, Paul	ST. LOUIS METROP.	190
Packman, Robt C	ST. LOUIS METROP.	190
Padilla, Pedro C	ST CHARLES-LINCOLN	189
Padilla, Teresita C	ST. LOUIS METROP.	190
Padula, Richard T	METRO MED-GREATER KC	098
Paez, Mauro A	ST. LOUIS METROP.	190
Page, Jesse W	SEMO	202
Paine, Robt	ST. LOUIS METROP.	190
Paino, Robert J	ST. LOUIS METROP.	190
Painter, Andrew E	PEMISCOT	170
Painter, Lattie B	PEMISCOT	170
Pakula, Sidney F	METRO MED-GREATER KC	098
Palazola, Joseph M	METRO MED-GREATER KC	098
Palazzo, Frank A	ST. LOUIS METROP.	190
Palcheff, Chris L	GREENE	082
Palen, James E	CAPE GIRARDEAU	042
Palenske, Robt L	DUNKLIN	070
Paletta, Christian E	ST. LOUIS METROP.	190
Paletta, Francis X Sr.	ST. LOUIS METROP.	190
Paletta, Frank	ST. LOUIS METROP.	190
Paletta, Theodore L	ST. LOUIS METROP.	190
Paletta, Victor L	ST. LOUIS METROP.	190
Palmer, Russell H	NORTHEAST	150
Palmer, Stephen M	ST. LOUIS METROP.	190
Panek, Judy L	METRO MED-GREATER KC	098
Paone, Douglas B	METRO MED-GREATER KC	098
Papageorge, Dean W	CLAY-PLATTE	050
Pappalardo, Carlos	ST. LOUIS METROP.	190
Papreck, K T	SALINE	198
Pardadelo, Jorge C	METRO MED-GREATER KC	098
Pardo, Leopoldo P	ST. LOUIS METROP.	190
Parelman, Allen G	METRO MED-GREATER KC	098
Parikh, Sharad P	ST. LOUIS METROP.	190
Parikh, Smita S	ST. LOUIS METROP.	190
Paris, Allen L	SOUTH CENTRAL	206
Paris, Wm H	ST. LOUIS METROP.	190
Park, Bert E	GREENE	082
Park, Duk J	JEFFERSON	106
Park, Kun H	JEFFERSON	106
Park, Wm I Jr	GREENE	082
Parker, Arthur C	B-W-R-C	034
Parker, Brent M	BOONE	026
Parker, Craig A	METRO MED-GREATER KC	098
Parker, Gary J	MINERAL AREA	138
Parker, Joseph C Jr	METRO MED-GREATER KC	098
Parker, Kim E	METRO MED-GREATER KC	098
Parker, Thos W	ST. LOUIS METROP.	190
Parker, Wm	ST. LOUIS METROP.	190
Parkins, George K	METRO MED-GREATER KC	098
Parks, Charles	ST. LOUIS METROP.	190
Parsons, Clyde W III	GREENE	082
Parsons, D L	CAPE GIRARDEAU	042
Parsons, Eugene O	METRO MED-GREATER KC	098
Parsons, Richard P	ST. LOUIS METROP.	190
*Parsons, William B	METRO MED-GREATER KC	098
Partamian, Krikor O	BUCHANAN	030
Partap, Prabha	ST. LOUIS METROP.	190
Parulekar, Dilip G	CALLAWAY	038
Parwatikar, Sadashiv D	ST. LOUIS METROP.	190
Paschino, Antonio P	METRO MED-GREATER KC	098
Pasia, Ebello T	ST. LOUIS METROP.	190
Paskar, Larry D	ST. LOUIS METROP.	190
Paskon, Seth	MID-MISSOURI	135
Passanante, Bartholomew M	ST. LOUIS METROP.	190
Patel, Bipin T	BUCHANAN	030
Patel, Dilip H	ST. LOUIS METROP.	190
Patel, Hansa N	GRAND RIVER	078
Patel, Indu B	JEFFERSON	106
Patel, Jash I	ST. LOUIS METROP.	190
Patel, Natu B	GRAND RIVER	078
Patel, Prakesh B	BUCHANAN	030
Patel, Raman J	BUCHANAN	030
Patrick, Roman L	ST. LOUIS METROP.	190
Patterson, Donald R	JASPER	102
Patterson, Donald C	BOONE	026
Patterson, Grover S	JASPER	102
Pattison, Charles P	METRO MED-GREATER KC	098
Patty, Carl F	B-W-R-C	034
Paulson, Gordon S	BUCHANAN	030
Pavlu, Robt R	LAFAYETTE-RAY	118
Pawsat, John E	METRO MED-GREATER KC	098
Payne, David E	BOONE	026
Payne, John W	BOONE	026
Payne, Meredith C	ST. LOUIS METROP.	190
Pearlman, Alan L	ST. LOUIS METROP.	190
Pearman, Carl C	BOONE	026
Pearse, Carlton S	ST. LOUIS METROP.	190
Pearse, Roy W	WEST CENTRAL	214
Pearson, William E	ST. LOUIS METROP.	190
Pecoraro, Anthony P	METRO MED-GREATER KC	098
Peden, Burnet W	ST. LOUIS METROP.	190
Peden, James C Jr.	ST. LOUIS METROP.	190
Peden, Jos C Jr.	ST. LOUIS METROP.	190
Peden, Virginia H	ST. LOUIS METROP.	190
Peebles, Jonathan B	ST. LOUIS METROP.	190
Peete, Don C	METRO MED-GREATER KC	098
Pehlman, Jos E	DUNKLIN	070
Pelegrin, Robert J	LAKE OF THE OZARKS	120
Pelican, George	ST. LOUIS METROP.	190
Pemberton, Loarn B	METRO MED-GREATER KC	098
Pendell, Paul W	METRO MED-GREATER KC	098
Pendergrass, Kelly B	METRO MED-GREATER KC	098
Penilla, Antonio R	ST. LOUIS METROP.	190
Penkoske, Michaele M	ST CHARLES-LINCOLN	189
Pennell, Richard C	ST. LOUIS METROP.	190
Penner, Stanley	METRO MED-GREATER KC	098
Penninger, William H	GREENE	082
Pennington, D. Glenn	ST. LOUIS METROP.	190
Pennington, F. Eugene	ST. LOUIS METROP.	190
Pennington, Michael S	OZARKS	166
Pennoyer, James	ST. LOUIS METROP.	190
Pentella, Karen J	ST. LOUIS METROP.	190
Pepper, Edward G	ST. LOUIS METROP.	190
Pepper, Max P	ST. LOUIS METROP.	190
Perez, Adamor R	ST. LOUIS METROP.	190
Perez, Blanca M	ST. LOUIS METROP.	190
Perez, Carlos A	ST. LOUIS METROP.	190
Perez, Jeannie O	ST. LOUIS METROP.	190
Perez, Robert J	ST. LOUIS METROP.	190
Perez, Romeo J	ST. LOUIS METROP.	190
Perez-Mesa, Carlos M	BOONE	026
Perico, Carlos J	METRO MED-GREATER KC	098
Perinetti, Enrique P	ST. LOUIS METROP.	190
Perkins, David E	ST. LOUIS METROP.	190
Perll, Maurice F Jr.	METRO MED-GREATER KC	098
Perll, Rita D	METRO MED-GREATER KC	098
Perlmutter, John C	ST CHARLES-LINCOLN	189
Perna, Vincent P	ST CHARLES-LINCOLN	189
Pernoud, Flavius G Jr.	ST. LOUIS METROP.	190
Pernoud, Flavius G III	ST. LOUIS METROP.	190
Pernoud, Joan M	ST. LOUIS METROP.	190
Pernoud, Michael F	ST. LOUIS METROP.	190
Perry, Dorothy S	ST. LOUIS METROP.	190
Perry, H. Mitchell Jr.	ST. LOUIS METROP.	190
Perry, Michael C	BOONE	026
Perry, Wm D	ST. LOUIS METROP.	190
Perryman, John C	METRO MED-GREATER KC	098
Petersen, Eugene G	METRO MED-GREATER KC	098
Peterson, Bonita J	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Peterson, Carl M	METRO MED-GREATER KC	098
Peterson, Craig A	GREENE	082
Peterson, Donald B	CALLAWAY	038
Peterson, Frederick O	ST. LOUIS METROP.	190
Peterson, Gary J	ST. LOUIS METROP.	190
Peterson, Jay T	METRO MED-GREATER KC	098
Peterson, Stanley S	GREENE	082
Peterson, Walter R	METRO MED-GREATER KC	098
Petkovich, Frank O	ST. LOUIS METROP.	190
Petruska, Paul J	ST. LOUIS METROP.	190
*Pewitt, Charles S	CAPE GIRARDEAU	042
Pfefer, Leland U	BOONE	026
Pfeffer-Hurwitz, Judith	METRO MED-GREATER KC	098
Pfefferkorn, David A	SEMO	202
Phanijphand, Suwan	B-W-R-C	034
Philgreen, Donald E	METRO MED-GREATER KC	098
Philip, Varkey E	ST. LOUIS METROP.	190
Phillips, Abraham M	ST. LOUIS METROP.	190
Phillips, Daniel	ST. LOUIS METROP.	190
Phillips, John J	ST. LOUIS METROP.	190
Phillips, Karen K	BOONE	026
Phillips, Ronald L	NORTH CENTRAL	162
Phillips, Stephen W	BOONE	026
Phillips, Thomas P	METRO MED-GREATER KC	098
Phillips, Wm J	ST. LOUIS METROP.	190
Philpott, Gordon W	ST. LOUIS METROP.	190
Phipatanakul, Chintana S	ST. LOUIS METROP.	190
Phipatanakul, Supote	ST. LOUIS METROP.	190
Piccione, Leonard N	ST. LOUIS METROP.	190
Pichardo, Javier A	MINERAL AREA	138
Pickard, Clarence M	BOONE	026
Pickard, Nicholas S	METRO MED-GREATER KC	098
Pickens, James M	BOONE	026
Picker, Selwyn	ST. LOUIS METROP.	190
Pickering, Lee I	METRO MED-GREATER KC	098
Piebenga, Larry W	METRO MED-GREATER KC	098
Piela, Robert C	BUCHANAN	030
Piepergerdes, Larry G	METRO MED-GREATER KC	098
Pierron, Robert L	ST. LOUIS METROP.	190
Pifer, Lawrence H	BUCHANAN	030
Piker, K. Dewayne	GREENE	082
Pileggi, Felix A	CLAY-PLATTE	050
Pimentel, Esperanza M	ST. LOUIS METROP.	190
Pimentel, Mauricio F	ST. LOUIS METROP.	190
Pinckley, James N	GREENE	082
Pineda, Hector O	ST. LOUIS METROP.	190
Pingelton, William B	BOONE	026
Pingleton, William W	CLAY-PLATTE	050
Pinkerton, Joseph A Jr.	METRO MED-GREATER KC	098
Pinsker, Oscar T	METRO MED-GREATER KC	098
Piontek, James F	CLAY-PLATTE	050
Piontek, Jerome G	ST. LOUIS METROP.	190
Piper, August T	ST. LOUIS METROP.	190
Piper, Donald K	METRO MED-GREATER KC	098
Piper, Terrence L	ST CHARLES-LINCOLN	189
Pirotte, Thomas P	JASPER	102
Pisoni, Steven P	ST. LOUIS METROP.	190
Pitiyanuvath, Tasanaporn	METRO MED-GREATER KC	098
Pitney, Phillip W	PIKE	186
Pitsinger, N. Bruce	ST. LOUIS METROP.	190
Pittman, David L	BOONE	026
Pittman, Gerald R	ST. LOUIS METROP.	190
Pittman, Susan	ST. LOUIS METROP.	190
Place, Kenneth C	METRO MED-GREATER KC	098
Plapp, Frederick V	METRO MED-GREATER KC	098
Platz, John H	GRAND RIVER	078
Plax, Steven I	ST. LOUIS METROP.	190
Plowman, Edward M	NORTHEAST	150
Plunk, Otis A	DUNKLIN	070
Podrecca, Guido I	GREENE	082
Poger, Marshall E	ST. LOUIS METROP.	190
Poggemeier, Wm H	ST CHARLES-LINCOLN	189
Pogson, George W III	METRO MED-GREATER KC	098
Pohl, David L	ST. LOUIS METROP.	190
Pojanasomboon, Pichat	MID-MISSOURI	135
Politi, Gregory B	METRO MED-GREATER KC	098
Politte, Lenard L	BOONE	026
Polukoff, Gerald I	ST. LOUIS METROP.	190
Pompushko, Rosalie	METRO MED-GREATER KC	098
Pon, Marcelino	ST. LOUIS METROP.	190
Ponnuru, Bhaskara M	ST. LOUIS METROP.	190
Pontillas, Job B	PERRY-STE GENEVIEVE	174
Poole, Anthony G	SEMO	202
Poonawala, Huseni E	METRO MED-GREATER KC	098
Popp, Dennis A	ST. LOUIS METROP.	190
Porporis, Arthur A	ST. LOUIS METROP.	190
Porter, Charles B	METRO MED-GREATER KC	098
*Porter, Edward A	NORTHEAST	150
Porter, Louis	METRO MED-GREATER KC	098
Porter, Lynn W	CAPE GIRARDEAU	042
Porter, Michael J	METRO MED-GREATER KC	098
Porter, Walter N Jr.	METRO MED-GREATER KC	098
Portnoff, Lee S	ST. LOUIS METROP.	190
Portuondo, Bonaventure C	ST. LOUIS METROP.	190
Post, Stephen L	ST. LOUIS METROP.	190
Postma, George S	METRO MED-GREATER KC	098
Potashnick, Robt	ST. LOUIS METROP.	190
Pottenger, L. Kenneth	JASPER	102
Potter, Caryl A Jr	BUCHANAN	030
Potter, Reese H	ST. LOUIS METROP.	190
Potts, Dan E	ST. LOUIS METROP.	190
Potts, Donald A	METRO MED-GREATER KC	098
Powell, Alan E	METRO MED-GREATER KC	098
Powell, Charles B	ST. LOUIS METROP.	190
Powell, Edwin M	GREENE	082
Powell, John A	ST. LOUIS METROP.	190
Powell, Robert G	JASPER	102
Powers, Catherine A	METRO MED-GREATER KC	098
Prater, Bill G	GREENE	082
Prelutsky, David J	ST. LOUIS METROP.	190
Prensky, Arthur L	ST. LOUIS METROP.	190
Presley, Jimmy C	GREENE	082
Presnell, Cleitus A	ST. LOUIS METROP.	190
Pressly, Thomas A	BOONE	026
Preston, Bruce E	SOUTH CENTRAL	206
Preuschoff, Claudia K	B-W-R-C	034
Previti, Vincent	GREENE	082
Prica, George Jr	BOONE	026
Price, Patrick K	METRO MED-GREATER KC	098
Price, Richard C	WEST CENTRAL	214
Prickett, David C Jr	CLAY-PLATTE	050
Pringle, Scot G	CAPE GIRARDEAU	042
Printz, Jos H	METRO MED-GREATER KC	098
Pro, John O	METRO MED-GREATER KC	098
Probst, Raymond E	ST. LOUIS METROP.	190
Probstein, Jacob G	ST. LOUIS METROP.	190
Proctor, Donald C	PETTIS	178
Prokop, Jos R	BUCHANAN	030
Prophete, Beaumanoir	ST. LOUIS METROP.	190
Proskey, Vincent J	ST. LOUIS METROP.	190
Prostic, Edward J	METRO MED-GREATER KC	098
Pruett, Burchard S	ST. LOUIS METROP.	190
Pruett, Don S	ST. LOUIS METROP.	190
Pruett, Paul L	GREENE	082
Prusaczyk, Jos V	ST. LOUIS METROP.	190
Pryor, Harold J	METRO MED-GREATER KC	098
Pryor, Ira Joe	JASPER	102
Psaltis, Phillip E	METRO MED-GREATER KC	098
Pu, Pin H	DUNKLIN	070
Puckett, Charles L	BOONE	026
Pugh, Richard G	METRO MED-GREATER KC	098
Purcell, Harry K	ST. LOUIS METROP.	190
Purcell, John J Jr.	ST. LOUIS METROP.	190
Purcell, Paul W	CLAY-PLATTE	050
Puro, Edward A	ST. LOUIS METROP.	190
*Pyron, Jimmy W	JASPER	102
Pyszczynski, Dennis R	METRO MED-GREATER KC	098

Q

Qadir, Abdul	LAFAYETTE-RAY	118
Qalbani, Mahmood A	ST CHARLES-LINCOLN	189
Qazi, Nasreen	ST. LOUIS METROP.	190
Quadir, Humayum	ST. LOUIS METROP.	190
Quer, Erich A	METRO MED-GREATER KC	098
Quiason, Arturo G	METRO MED-GREATER KC	098
Quiason, Emmeline P	METRO MED-GREATER KC	098
Quick, Annette M	METRO MED-GREATER KC	098
Quick, Richard T	ST. LOUIS METROP.	190
Quick, William W	METRO MED-GREATER KC	098
Quinn, Paul S	GREENE	082
Quinn, Rodney O	GREENE	082
Quinn, William G	BOONE	026
Qureshi, Abdul R	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

R

Rabon, Nancy A	WEST CENTRAL	214
Raborar, Arteso C	GREENE	082
Racadio, Severo M	ST. LOUIS METROR.	190
Racela, Antonio S	METRO MED-GREATER KC	098
Rachlin, Maxwell	ST. LOUIS METROR.	190
Rader, Ada E	METRO MED-GREATER KC	098
Rader, Edward S	ST. LOUIS METROR.	190
*Radinsky, Stephen	ST. LOUIS METROP.	190
Radke, John D	ST. LOUIS METROR.	190
Ragland, John E	COLE	058
Rahman, Moududur	ST. LOUIS METROP.	190
Raible, Michele D	METRO MED-GREATER KC	098
Raich, Robt A	METRO MED-GREATER KC	098
Raichle, Marcus E	ST. LOUIS METROR.	190
Railey, Michael T	ST. LOUIS METROR.	190
Rainey, Robt	ST. LOUIS METROR.	190
Rainwater, Elmer H	GREENE	082
Raju, Niranjana	RERRY-STE GENEVIEVE	174
Raksakulthai, Vinai	MINERAL AREA	138
Rall, Kenneth L	BOONE	026
Ramey, Ehret O	METRO MED-GREATER KC	098
Ramirez, Jose A	ST. LOUIS METROP.	190
Ramirez, Ricardo M	B-W-R-C	034
Ramirez, Samuel G	ST. LOUIS METROR.	190
Ramirez-Inawat, Rebecca C	ST. LOUIS METROR.	190
Ramos, Americo G	METRO MED-GREATER KC	098
Rampertaap, Moonasar R	METRO MED-GREATER KC	098
Ramsey, J. Darryl	CARE GIRARDEAU	042
*Ramsey, Jesse R	CARE GIRARDEAU	042
Ramsey, Robt H	ST. LOUIS METROR.	190
Randolph, Bernard C	ST. LOUIS METROR.	190
Randolph, Kerry A	GREENE	082
Rangineni, Rajagopal	BUCHANAN	030
Rankin, Diane	ST. LOUIS METROR.	190
*Rankin, Wendell D	JASRER	102
Rao, Aswath N	ST. LOUIS METROR.	190
Rao, Carlo	ST. LOUIS METROR.	190
Rao, Sumati	ST. LOUIS METROR.	190
Raphel, Jose	BUCHANAN	030
Rapp, Earl L	NORTHEAST	150
Rappold, Henry O	ST. LOUIS METROP.	190
Rathnakumar, Kalaichelvi	JASRER	102
Ratkin, Gary A	ST. LOUIS METROR.	190
Ratnam, Dasari V	METRO MED-GREATER KC	098
Rau, Michael E	F-G-W	074
Rawlins, Fred E	CAPE GIRARDEAU	042
Rawson, Rerry G	F-G-W	074
Ray, David J	SOUTH CENTRAL	206
*Ray, Terry L	BOONE	026
Raybould, Michael W	METRO MED-GREATER KC	098
Rayford, Cleveland E	METRO MED-GREATER KC	098
Raynor, Richard C	SALINE	198
Rea, James L	COLE	058
Reams, Garry R	BOONE	026
Reardon, Jane D	METRO MED-GREATER KC	098
Reardon, Thos F	ST. LOUIS METROR.	190
Rector, Joe L	METRO MED-GREATER KC	098
Reddin, Jack L	METRO MED-GREATER KC	098
Reddin, Patrick C	AUDRAIN	014
Reddy, Abbiah N	B-W-R-C	034
Reddy, Anchala N	SOUTH CENTRAL	206
Reddy, M V	ST. LOUIS METROR.	190
Reddy, Nalini A	SOUTH CENTRAL	206
Reddy, R. Ramachandra	CARE GIRARDEAU	042
Reddy, Sarvotham K	METRO MED-GREATER KC	098
Reddy, Vodur C	JASRER	102
Redington, James C Jr.	ST. LOUIS METROR.	190
Redmond, William S	BUCHANAN	030
Rednam, Krishnarao V	ST. LOUIS METROR.	190
Reed, Glen H	WEST CENTRAL	214
Reed, Jonathan R	ST. LOUIS METROR.	190
Reed, Leslie G	ST. LOUIS METROR.	190
Reed, Mark O	BOONE	026
Reed, Martha A	JEFFERSON	106
Reed, Wm A	METRO MED-GREATER KC	098
Reeder, Chas C	CLAY-RLATTE	050
Reese, A. Victor	ST. LOUIS METROP.	190
Reese, Lester T	ST. LOUIS METROR.	190
Reeves, Lt. Col. Glen I	ST. LOUIS METROR.	190
Regier, Anne M	METRO MED-GREATER KC	098
Regier, Carl M	TRI-LAKES	208
Reh, Edward R Jr.	ST. LOUIS METROR.	190
Reh, Thos E	ST. LOUIS METROR.	190
Reichert, M. Cecelia	ST. LOUIS METROP.	190
Reichert, Timothy J	ST. LOUIS METROP.	190
Reimer, Donald R	CAPE GIRARDEAU	042
Reineke, Fred W	ST. LOUIS METROR.	190
Reinhard, Edward H	ST. LOUIS METROR.	190
Reinhardt, John R	METRO MED-GREATER KC	098
Reisler, David M	ST. LOUIS METROP.	190
Reiss, Jeanne E	METRO MED-GREATER KC	098
Reister, Dorothy D	METRO MED-GREATER KC	098
Reister, Rhilip D	METRO MED-GREATER KC	098
Reiter, Federico B	ST. LOUIS METROP.	190
Rejent, Anthony J	ST. LOUIS METROR.	190
Rende, Richard J	ST. LOUIS METROR.	190
Rendleman, Geo F Jr.	ST. LOUIS METROR.	190
Rengachary, Dhanalakshmi	METRO MED-GREATER KC	098
Rennard, Marvin	ST. LOUIS METROR.	190
Renner, Gregory J	BOONE	026
Renner, John H	METRO MED-GREATER KC	098
Repp, Theodore J Jr.	ST. LOUIS METROR.	190
Reuter, Louis A	ST. LOUIS METROP.	190
Revare, Raul	CLAY-RLATTE	050
Revels, Harry III	ST. LOUIS METROP.	190
Reyes, Efraim	GREENE	082
Reyes, Jose T	ST. LOUIS METROR.	190
Reyes, Lirio M	GREENE	082
Reyes, Luis A	ST. LOUIS METROR.	190
Reyes, Rosendo A	ST. LOUIS METROR.	190
Reynolds, Clarence C	METRO MED-GREATER KC	098
Reynolds, James A	ST. LOUIS METROR.	190
Reynolds, Ralph D	BOONE	026
Reynolds, Robert B Sr.	ST. LOUIS METROR.	190
Reynolds, Susan K	ST. LOUIS METROP.	190
Rezvani, Laghaieh	SEMO	202
Rhee, Dong S	ST. LOUIS METROR.	190
Rhee, Seoung E	ST. LOUIS METROP.	190
Rhoades, Charles E	METRO MED-GREATER KC	098
Rhoads, Jack V	METRO MED-GREATER KC	098
Rhodes, Andrew J	METRO MED-GREATER KC	098
Rhodes, Rhilip G	METRO MED-GREATER KC	098
Ribaudo, J. Michael	ST. LOUIS METROR.	190
*Ricci, Robert G	CLAY-PLATTE	050
Ricci, Walter F	METRO MED-GREATER KC	098
Rice, Kathleen G	GREENE	082
*Rice, William E	NORTHEAST	150
Rich, Keith M	ST. LOUIS METROR.	190
Rich, Margaret M	ST. LOUIS METROP.	190
Richards, Dean D III	METRO MED-GREATER KC	098
Richards, Frank O	ST. LOUIS METROP.	190
Richardson, Geo A	F-G-W	074
Richardson, Lloyd D	METRO MED-GREATER KC	098
Richardson, Marilyn R	METRO MED-GREATER KC	098
Richardson, Marion W	METRO MED-GREATER KC	098
Richardson, Thos F	ST. LOUIS METROR.	190
Richardson, Wm R	F-G-W	074
Richert, Robt C	METRO MED-GREATER KC	098
Richmond, Joseph S	METRO MED-GREATER KC	098
Richmond, Michael R	ST. LOUIS METROR.	190
Ridenhour, Clarence E	BOONE	026
Ridgeway, Wm G	ST. LOUIS METROR.	190
Ridings, G R	CAPE GIRARDEAU	042
Ridings, Harold D	CAPE GIRARDEAU	042
Ries, Douglas A	ST. LOUIS METROR.	190
Rifkin, Shale	ST. LOUIS METROR.	190
Rigdon, John F	METRO MED-GREATER KC	098
Riggio, Salvatore N	ST. LOUIS METROR.	190
Rigolosi, Ronald A	METRO MED-GREATER KC	098
Rikli, Arthur E	BOONE	026
Riley, Chas T	LAFAYETTE-RAY	118
Riley, J R	METRO MED-GREATER KC	098
Riley, John J	ST. LOUIS METROR.	190
Riller, Lowell E	METRO MED-GREATER KC	098
Rinck, Edward C	WEST CENTRAL	214
Riner, Ronald N	ST. LOUIS METROR.	190
Ring, Edward M	ST. LOUIS METROP.	190
Ring, Lisa B	ST. LOUIS METROR.	190
Ringer, C. Nelson	CARE GIRARDEAU	042
Rios, Ruth S	D-H-R-D	066
Rippe, William F	BUCHANAN	030
Rippey, John H	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Rising, Dean R	GREENE	082
Ritter, C J	CAPE GIRARDEAU	042
Ritter, Carl F	CAPE GIRARDEAU	042
Ritter, Hubert A	ST. LOUIS METROP.	190
Ritter, Ray A Jr	CAPE GIRARDEAU	042
Ritter, Raymond A Sr.	CAPE GIRARDEAU	042
Ritter, William S	METRO MED-GREATER KC	098
Ritterbusch, James K Jr.	ST. LOUIS METROP.	190
Rivera, Minerva M	GRAND RIVER	078
Rivera, Pepito C	GRAND RIVER	078
Rizzo, Adolfo E	ST. LOUIS METROP.	190
Robb, Christine A	METRO MED-GREATER KC	098
Robben, G. Garry	ST. LOUIS METROP.	190
Robbins, Philip L	ST. LOUIS METROP.	190
Robbins, Thomas D	COLE	058
Roberts, Charles C	METRO MED-GREATER KC	098
Roberts, Fred F	METRO MED-GREATER KC	098
Roberts, Grosvenor G	METRO MED-GREATER KC	098
Roberts, Harold K	ST. LOUIS METROP.	190
Roberts, Howard H	JASPER	102
Roberts, John P	ST. LOUIS METROP.	190
Roberts, Perry T	CAPE GIRARDEAU	042
Roberts, Phyllis G	BUCHANAN	030
Robertson, Frank G	ST. LOUIS METROP.	190
Robertson, Wm D	B-W-R-C	034
Robinett, Wade V	METRO MED-GREATER KC	098
Robinson, Arthur W	METRO MED-GREATER KC	098
Robinson, Edith C	ST. LOUIS METROP.	190
Robinson, Ernest K	METRO MED-GREATER KC	098
Robinson, Gary L	GREENE	082
Robinson, Justin A	BOONE	026
Robinson, Nicholas F	DUNKLIN	070
Robinson, Ronald L	CAPE GIRARDEAU	042
Robinson, Van M	CLAY-PLATTE	050
Robinson, Wm J	METRO MED-GREATER KC	098
Roblee, Melvin A	ST. LOUIS METROP.	190
Rochelle, James R	CLAY-PLATTE	050
Rockwell, Wayne L	CLAY-PLATTE	050
Rodas, Rizalina	CLAY-PLATTE	050
Roden, Vernon J	ST. LOUIS METROP.	190
Rodes, Ned D	AUDRAIN	014
Rodgers, Dorothy L	BOONE	026
Rodgers, Geo H	METRO MED-GREATER KC	098
Rodgers, Saml U	METRO MED-GREATER KC	098
Rodrigo, Bernardo R	ST. LOUIS METROP.	190
Rodriguez, Gregorio L	SEMO	202
Rodriguez, Ubaldo R	ST. LOUIS METROP.	190
Roedel, Kathryn R	METRO MED-GREATER KC	098
Roehrs, David H	PETTIS	178
Roehrs, Marvin E	SALINE	198
Roeltgen, David P	BOONE	026
Rofail, Amin A	METRO MED-GREATER KC	098
Rogers, H. Bryan	ST. LOUIS METROP.	190
Rogers, James D	GREENE	082
Rogers, James T	GREENE	082
Rogers, John T	BUCHANAN	030
Rogers, Joseph D	GREENE	082
Rogers, Robt L	METRO MED-GREATER KC	098
Rohatgi, Reeta	CAPE GIRARDEAU	042
Rohrbaugh, James R	ST. LOUIS METROP.	190
Roller, James A	BOONE	026
Rollo, John L	ST. LOUIS METROP.	190
Romeo, Sam J.W.	ST. LOUIS METROP.	190
Romig, Laurie A	METRO MED-GREATER KC	098
Rooney, William R	OZARKS	166
Rope, Douglas M	METRO MED-GREATER KC	098
Roper, Chas L	ST. LOUIS METROP.	190
Rose, Barry A	METRO MED-GREATER KC	098
Rose, John F	GRAND RIVER	078
Rosen, Larry A	METRO MED-GREATER KC	098
Rosen, William K	GREENE	082
Rosenbaum, Harry D	ST. LOUIS METROP.	190
Rosenbaum, Herbert E	ST. LOUIS METROP.	190
Rosenberg, Dale H	ST. LOUIS METROP.	190
Rosenberg, David S	ST. LOUIS METROP.	190
Rosenblum, Barry N	ST. LOUIS METROP.	190
Rosenthal, Irwin I	BUCHANAN	030
Rosenthal, Randall	ST. LOUIS METROP.	190
Ross, Gilbert	BOONE	026
Ross, Robert M	METRO MED-GREATER KC	098
Ross, Walter R Jr	CLAY-PLATTE	050
Ross, Wm J	ST. LOUIS METROP.	190
Roter, Alexander M	ST CHARLES-LINCOLN	189
Roth, Alfred D	METRO MED-GREATER KC	098
Roth, John J	ST. LOUIS METROP.	190
Roth, William	ST. LOUIS METROP.	190
Rother, Paul H	ST CHARLES-LINCOLN	189
Rothweiler, Robt J	ST. LOUIS METROP.	190
Rotskoff, Kenneth S	ST. LOUIS METROP.	190
Roulhac, Geo E	ST. LOUIS METROP.	190
Rouse, Ernest T	ST. LOUIS METROP.	190
Rouse, Ernest T III	ST. LOUIS METROP.	190
Roush, Geo	ST. LOUIS METROP.	190
Roush, Randall D	ST. LOUIS METROP.	190
*Routsong, Rodney T	ST. LOUIS METROP.	190
Rowe, Vernon D III	METRO MED-GREATER KC	098
Roxas, Generoso P	ST CHARLES-LINCOLN	189
Roy, Jos A	ST. LOUIS METROP.	190
Roy, Tapankumar S	ST. LOUIS METROP.	190
Royce, James J	JASPER	102
Royce, Robt K	ST. LOUIS METROP.	190
Rozen, Jay I	METRO MED-GREATER KC	098
Rubenstein, Melvin	ST. LOUIS METROP.	190
Rubnitz, Leon H	METRO MED-GREATER KC	098
Ruehl, Albert F	ST. LOUIS METROP.	190
Rues, Lawrence A	METRO MED-GREATER KC	098
Ruess, Robert W	CAPE GIRARDEAU	042
Ruff, Paul G	GREENE	082
Ruff, T E	B-W-R-C	034
Ruhling, Rudy	ST. LOUIS METROP.	190
Rumelt, Michael	ST. LOUIS METROP.	190
Rundorff, Robert L	BOONE	026
Runez, Manuel W	NORTHWEST	158
Russell, Barbara E	MID-MISSOURI	135
Russell, Earl D	GREENE	082
Russell, Garth S	BOONE	026
Russell, James L	METRO MED-GREATER KC	098
Russell, Nancy R	CLAY-PLATTE	050
*Russell, Robert B	CAPE GIRARDEAU	042
Russell, Robt K	METRO MED-GREATER KC	098
Russell, Steven L	CLAY-PLATTE	050
Rutherford, Barry D	METRO MED-GREATER KC	098
Rutherford, James L	ST. LOUIS METROP.	190
Ruwitch, Joseph F Jr.	ST. LOUIS METROP.	190
Ryall, Jo-Ellyn M	ST. LOUIS METROP.	190
Ryan, David	GRAND RIVER	078
Ryan, Robert A	GREENE	082
Ryan, Robt E Sr.	ST. LOUIS METROP.	190
Ryan, Thomas J	COLE	058
Rymer, Marilyn M	METRO MED-GREATER KC	098
Ryser, Carol A	METRO MED-GREATER KC	098

S

Sabapathy, Shan	JASPER	102
Sabates, Felix N	METRO MED-GREATER KC	098
Sabates, Roland	METRO MED-GREATER KC	098
Sabet, Abdollah A	ST. LOUIS METROP.	190
Sabeti, Mohebat	BOONE	026
*Sacha, Robert F	CAPE GIRARDEAU	042
Sachar, Jerome D	ST. LOUIS METROP.	190
Sachar, Leo A	ST. LOUIS METROP.	190
Sadhu, Vijay K	BOONE	026
Saferstein, A L	METRO MED-GREATER KC	098
Safi, Malaz	ST. LOUIS METROP.	190
Safley, Thos J	METRO MED-GREATER KC	098
Saghir, Marcel T	ST. LOUIS METROP.	190
Saha, Nitai C	ST. LOUIS METROP.	190
Saha, Sudha R	ST. LOUIS METROP.	190
Saitz, Robert M	ST. LOUIS METROP.	190
Sakmar, Douglas A	ST. LOUIS METROP.	190
Sala, Jose M	BOONE	026
Salanga, Percival B	ST. LOUIS METROP.	190
Saldana, Dahlia	METRO MED-GREATER KC	098
Sale, Llewellyn Jr.	ST. LOUIS METROP.	190
Sale, Scott R	ST. LOUIS METROP.	190
*Saleh, George A	CLAY-PLATTE	050
Salinas, Mario	ST. LOUIS METROP.	190
Salmon, M. L.	ST. LOUIS METROP.	190
Salvador, Antonio	ST. LOUIS METROP.	190
Salvaggio, Bruce H	METRO MED-GREATER KC	098
Samet, John M	ST. LOUIS METROP.	190
Sammon, T James	GREENE	082
Sammons, Harry C	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Samson, Barry L	ST. LOUIS METROP.	190
Samudrala, Ramulu	ST. LOUIS METROP.	190
Samuel, George P	B-W-R-C	034
Samuels, Lawrence E	ST. LOUIS METROP.	190
Samuelson, Edward A	METRO MED-GREATER KC	098
Sanchez, Abelardo B	ST. LOUIS METROP.	190
Sandberg, Chris B	BUCHANAN	030
Sanders, Donald C	METRO MED-GREATER KC	098
Sanders, Harold L	BOONE	026
Sanders, Jack S	COLE	058
Sanders, Theodore E	ST. LOUIS METROP.	190
Sanders, Wm F	METRO MED-GREATER KC	098
Sandow, Theodore L	METRO MED-GREATER KC	098
Sandza, Joseph G Jr.	ST. LOUIS METROP.	190
Saneman, Paul P	JASPER	102
Sankaran, Dharmasumvardhi	ST. LOUIS METROP.	190
Santanello, William M	ST. LOUIS METROP.	190
Santillano, Antonio B	ST. LOUIS METROP.	190
Santner, Floyd A	GRAND RIVER	078
Santoro, Carlos G	METRO MED-GREATER KC	098
Santos-Pardo, Lourdes A	ST. LOUIS METROP.	190
Sardjono, Herman	OZARKS	166
Sargent, Alden P	SEMO	202
Sarwark, John F	METRO MED-GREATER KC	098
Sasser, Wm F	ST. LOUIS METROP.	190
Sata, Lindbergh S	ST. LOUIS METROP.	190
Sato, Geo	ST. LOUIS METROP.	190
Sato, Richard W	ST. LOUIS METROP.	190
Sauer, Donald C	ST. LOUIS METROP.	190
Sauer, Gordon C	METRO MED-GREATER KC	098
Sauer, James M	GREENE	082
Sauer, Paul E	GREENE	082
Saunders, Carol S	MID-MISSOURI	135
Sauvage, Jacques P	ST. LOUIS METROP.	190
Savci, Hasan D.	ST. LOUIS METROP.	190
Sawicki, Edward H	GREENE	082
Sawyer, Floyd E	CLAY-PLATTE	050
Sawyer, James	ST. LOUIS METROP.	190
Saxer, John J III	METRO MED-GREATER KC	098
Saxon, Keith G	CLAY-PLATTE	050
Scacewater, Rick	JASPER	102
Scanlon, Charlotte D	METRO MED-GREATER KC	098
*Scanlon, Robert C II	GREENE	082
Scarborough, Betty F	METRO MED-GREATER KC	098
Scarborough, Mark R	METRO MED-GREATER KC	098
Scearce, Robert L	COLE	058
Schaaf, Robert O	BUCHANAN	030
Schaefer, Glennon S	ST. LOUIS METROP.	190
Schaeffer, Edward M	GREENE	082
Schaerer, Jacques P	ST. LOUIS METROP.	190
Schaffer, Jeffrey F	BOONE	026
Schaffer, Valerie A	DUNKLIN	070
Schaper, Daniel D	JASPER	102
Schaper, Ernest H	ST. LOUIS METROP.	190
Scharf, Daniel	METRO MED-GREATER KC	098
Schechter, Saml E	ST. LOUIS METROP.	190
Scheele, Paul M	ST. LOUIS METROP.	190
Scheer, George E	ST. LOUIS METROP.	190
Scheibe, Robt G	ST. LOUIS METROP.	190
Scheible, Robert F	ST. LOUIS METROP.	190
*Schekorra, Fred W	COLE	058
Schell, James A	BOONE	026
Schengber, John S	ST. LOUIS METROP.	190
Scherer, Stephen	METRO MED-GREATER KC	098
Scherr, David D	COLE	058
Schertz, Truman B	CLAY-PLATTE	050
Scheu, James H	ST. LOUIS METROP.	190
Schewe, Elmer J	BOONE	026
Schierman, Wm D	ST. LOUIS METROP.	190
Schiffmacher, Jack E	METRO MED-GREATER KC	098
Schillie, Gene A	METRO MED-GREATER KC	098
Schlafly, Bruce S	ST. LOUIS METROP.	190
Schlafly, Edward F JR.	ST. LOUIS METROP.	190
Schlansky, Howard J	ST CHARLES-LINCOLN	189
Schlansky, Seymour M	ST. LOUIS METROP.	190
Schlozman, Danl L	METRO MED-GREATER KC	098
Schmidt, Dennis A	ST. LOUIS METROP.	190
Schmidt, Edwin H	ST. LOUIS METROP.	190
Schmidt, Edwin H III	ST. LOUIS METROP.	190
Schmidt, Herbert J	JASPER	102
Schmidt, Jerome H	COLE	058
Schmidt, Thomas L	METRO MED-GREATER KC	098
Schneider, J. Michael	GREENE	082
Schneider, Paul G	ST. LOUIS METROP.	190
Schneider, Robert J	ST. LOUIS METROP.	190
Schneider, Sally L	ST. LOUIS METROP.	190
Schneider, Thos A	ST CHARLES-LINCOLN	189
Schnell, Gregory A	METRO MED-GREATER KC	098
Schnidman, Jacquelyn C	ST. LOUIS METROP.	190
Schnurr, Thomas C	OZARKS	166
Schoch, Lawrence H	ST. LOUIS METROP.	190
Schoeberl, C. B	JASPER	102
Schoeck, Albert F	ST. LOUIS METROP.	190
Schoedinger, George R III	ST. LOUIS METROP.	190
Schoenberger, John R	CAPE GIRARDEAU	042
Schoenecker, Perry L	ST. LOUIS METROP.	190
*Schoenfeld, Roger H	JASPER	102
Schoengarth, Lowell D	BOONE	026
Schoentag, John S	ST. LOUIS METROP.	190
Schokker, Johannes	COLE	058
Schonfeld, Gustav	ST. LOUIS METROP.	190
*Schooler, Richard D	JASPER	102
Schoolman, Arnold	METRO MED-GREATER KC	098
Schoonmaker, Gene	GREENE	082
Schoonmaker, Jeanette	GREENE	082
Schopp, Alvin C	ST. LOUIS METROP.	190
Schottman, Gerhard W	METRO MED-GREATER KC	098
Schrage, Jon P	BOONE	026
Schranck, Chas R Sr.	ST. LOUIS METROP.	190
Schreiber, David J	ST. LOUIS METROP.	190
Schreiber, Norman J	GREENE	082
Schrick, Richard E	ST. LOUIS METROP.	190
*Schroeder, Walter A Jr.	CAPE GIRARDEAU	042
Schroff, Carle E	GREENE	082
Schuessler, Edward C	ST. LOUIS METROP.	190
Schuessler, Wolfgang P	ST. LOUIS METROP.	190
Schuetz, Alfred	ST CHARLES-LINCOLN	189
Schulman, Jeffrey I	ST. LOUIS METROP.	190
Schultz, Earl R	ST. LOUIS METROP.	190
Schultz, Irwin	ST. LOUIS METROP.	190
Schulz, Richard	ST. LOUIS METROP.	190
Schutz, John P	CLAY-PLATTE	050
Schutz, Richard B	METRO MED-GREATER KC	098
Schwartz, Eugene J	GREENE	082
Schwartz, Henry G	ST. LOUIS METROP.	190
Schwartz, Howard I	METRO MED-GREATER KC	098
Schwartz, Howard R	GREENE	082
Schwartz, Melvin M	ST. LOUIS METROP.	190
Schwarz, Luis H	ST. LOUIS METROP.	190
*Schwarze, Martin W	ST. LOUIS METROP.	190
Schwegler, Robert G	METRO MED-GREATER KC	098
Schweiss, John F	ST. LOUIS METROP.	190
Schweitzer, James M	ST. LOUIS METROP.	190
Sciortino, John S	ST. LOUIS METROP.	190
Scott, E David	COLE	058
Scott, Elwin P	ST. LOUIS METROP.	190
Scott, Hillard L	ST. LOUIS METROP.	190
Scott, Horace W	ST. LOUIS METROP.	190
Scott, Kenneth F	HENRY	086
Scott, Robert W	GREENE	082
Scowley, John E	LAFAYETTE-RAY	118
Scully, Bruce D	WEST CENTRAL	214
Scully, Thomas F	ST. LOUIS METROP.	190
Seabaugh, Janice L	AUDRAIN	014
Seabaugh, Wm O	CAPE GIRARDEAU	042
Seagrave, Richard A	GREENE	082
Sealby, Robert L	BUCHANAN	030
Seale, Stuart A	GREENE	082
Sedgwick, William G	ST. LOUIS METROP.	190
Seeck, Linda E	F-G-W	074
Seed, John	ST. LOUIS METROP.	190
Seeley, James J	ST. LOUIS METROP.	190
Seely, Clark W	METRO MED-GREATER KC	098
Seib, Geo A	ST. LOUIS METROP.	190
Seiden, Gerald D	METRO MED-GREATER KC	098
Seitz, Elson F	METRO MED-GREATER KC	098
Selhorst, John B	ST. LOUIS METROP.	190
Sells, Kenneth J	METRO MED-GREATER KC	098
Senturia, Hyman R	ST. LOUIS METROP.	190
Seralathan, Ramasamy	B-W-R-C	034
Sermchief, Chaiyarat	MINERAL AREA	138
Sertl, George O	ST. LOUIS METROP.	190
Sertl, James F	ST. LOUIS METROP.	190
Sertl, John D	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Seshumurty, Ponnuru	METRO MED-GREATER KC	098
Seshumurty, Vimala	METRO MED-GREATER KC	098
Sessions, Donald G	ST. LOUIS METROP.	190
Sexton, Danl L	ST. LOUIS METROP.	190
Shackter, Bruce I	GREENE	082
Shadowen, David I	METRO MED-GREATER KC	098
Shadowen, Rebecca D	METRO MED-GREATER KC	098
Shaeffer, James T	GREENE	082
Shafer, Kenneth E	SOUTH CENTRAL	206
Shaffer, Lynn R	TRI-LAKES	208
Shaffer, Stanley G	METRO MED-GREATER KC	098
Shah, Anwar	ST. LOUIS METROP.	190
Shah, Bharat K	ST. LOUIS METROP.	190
Shah, Jayendra H	BOONE	026
Shah, Jitendra P	ST. LOUIS METROP.	190
Shah, Modaser	ST. LOUIS METROP.	190
Shah, Narendra	BUCHANAN	030
Shah, Ramesh R	JASPER	102
Shah, Saroj J	BOONE	026
Shah, Sheila	BUCHANAN	030
Shahan, Philip T	ST. LOUIS METROP.	190
Shaheen, Eleanor	BOONE	026
Shaikun, Gerald L	ST. LOUIS METROP.	190
Shakil, Mohammad	CAPE GIRARDEAU	042
Shalet, Malcolm F	METRO MED-GREATER KC	098
Shanahan, Mary P	JASPER	102
Shanahan, Philip J	ST. LOUIS METROP.	190
Shane, Ramon A	GREENE	082
Shaner, Thos P	ST. LOUIS METROP.	190
Shank, Robt E	ST. LOUIS METROP.	190
Shapero, James A	BOONE	026
Shapiro, Herbert N	ST. LOUIS METROP.	190
Shapiro, Lazare M	METRO MED-GREATER KC	098
Shapleigh, John B II	ST. LOUIS METROP.	190
Shaplin, Alfred D	JEFFERSON	106
Sharma, Janardana N	METRO MED-GREATER KC	098
Sharma, Vidya	METRO MED-GREATER KC	098
Sharp, Austin R	ST. LOUIS METROP.	190
Sharp, Ronald J	METRO MED-GREATER KC	098
Sharp, Stanley P	METRO MED-GREATER KC	098
Shatz, Burton A	ST. LOUIS METROP.	190
Shatz, Gerald S	ST. LOUIS METROP.	190
Shatz, Richard N	ST. LOUIS METROP.	190
Shaw, Edward J	ST. LOUIS METROP.	190
Shaw, James T	F-G-W	074
Shaw, Richard C	ST. LOUIS METROP.	190
Shaw, Robert D	SOUTH CENTRAL	206
Shaw, Wm J	HOWARD	094
Shea, James G	F-G-W	074
Sheahon, John A	METRO MED-GREATER KC	098
Shealy, C. Norman	GREENE	082
Shechter, Nathan	METRO MED-GREATER KC	098
Sheehan, Michael B	METRO MED-GREATER KC	098
Sheehan, Paul J	ST. LOUIS METROP.	190
Sheffner, Paul W	ST. LOUIS METROP.	190
Shehadi, Sameer I	ST. LOUIS METROP.	190
Shelden, Russell D	METRO MED-GREATER KC	098
Shell, William C	SEMO	202
Shelton, Earl W	ST. LOUIS METROP.	190
Shelton, R. Wayne	GREENE	082
Shen, Anthony S	ST. LOUIS METROP.	190
Shen, Hang C	ST. LOUIS METROP.	190
Shen, Jerome T	ST. LOUIS METROP.	190
Shen, Vincent S	ST. LOUIS METROP.	190
Sheridan, John J	ST. LOUIS METROP.	190
Sherman, Laurence A	ST. LOUIS METROP.	190
Sherman, Neal J	METRO MED-GREATER KC	098
Sherman, W. Gary	ST. LOUIS METROP.	190
Sherrod, Duane W	JASPER	102
*Sherrod, Glenn M	ST. LOUIS METROP.	190
Sherwin, Charles S	ST. LOUIS METROP.	190
Sheverini, James A	METRO MED-GREATER KC	098
Shevlin, Chas F	BUCHANAN	030
Shieber, Wm	ST. LOUIS METROP.	190
Shields, John B	ST. LOUIS METROP.	190
Shields, Lawrence S	GREENE	082
Shifrin, Alexander	METRO MED-GREATER KC	098
Shin, Dong Soo	C-M-M-R	046
Shine, Thomas E	ST. LOUIS METROP.	190
Shinn, Michael E	CLAY-PLATTE	050
Shirey, Arnold G	PEMISCOT	170
Shitut, Ravindra V	ST. LOUIS METROP.	190
Shively, Raymond E	ST. LOUIS METROP.	190
Shively, Robert A	ST. LOUIS METROP.	190
Shockley, Clarence J	METRO MED-GREATER KC	098
Shockley, Karen D	ST. LOUIS METROP.	190
Shondelmeyer, Raymond W	BOONE	026
Shopper, Moisy	ST. LOUIS METROP.	190
Shore, Bernard L	ST. LOUIS METROP.	190
Short, Charles D	ST. LOUIS METROP.	190
Short, Howard N	F-G-W	074
Shoss, Milton	CAPE GIRARDEAU	042
Shridharani, Mahavir K	JOHNSON	110
Shriver, Ronald G	JASPER	102
Shroff, Kumkum	ST. LOUIS METROP.	190
Shuey, Herbert H	METRO MED-GREATER KC	098
Shuff, Paul D	ST. LOUIS METROP.	190
Shuler, Frederick N	METRO MED-GREATER KC	098
*Shuler, Lewis D	JASPER	102
Shull, G D	COLE	058
Shuman, Jos S	ST. LOUIS METROP.	190
Shuss, David H	METRO MED-GREATER KC	098
Shyken, Herman	ST. LOUIS METROP.	190
Shyken, Jaye M	BOONE	026
Sicard, Gregorio A	ST. LOUIS METROP.	190
Sicat, Alfonso V	JOHNSON	110
Siddiqui, Farzanna Q	ST. LOUIS METROP.	190
Siddiqui, Jawed H	ST. LOUIS METROP.	190
Sides, Stanley D	CAPE GIRARDEAU	042
Siegel, Barry A	ST. LOUIS METROP.	190
Siegel, Carl D	METRO MED-GREATER KC	098
Siegel, Charles	CLAY-PLATTE	050
Siegfried, Barry A	ST. LOUIS METROP.	190
Siemers, Geo E	ST. LOUIS METROP.	190
Siesener, Herbert H	ST. LOUIS METROP.	190
Sigmund, Chas J	ST. LOUIS METROP.	190
Sigmund, Chas A	ST. LOUIS METROP.	190
Silber, Sherman J	ST. LOUIS METROP.	190
*Sill, William	ST CHARLES-LINCOLN	189
Silliman, York E	BUCHANAN	030
Silsby, Harry D	GREENE	082
Silver, Bernd	ST. LOUIS METROP.	190
Silver, Donald	BOONE	026
Silverberg, Chas	ST. LOUIS METROP.	190
Silvermintz, Saul D	ST. LOUIS METROP.	190
Simmons, Donald D	METRO MED-GREATER KC	098
Simmons, Jess S	JASPER	102
Simmons, John L	METRO MED-GREATER KC	098
Simon, David L	ST. LOUIS METROP.	190
Simon, Gracita S	CLAY-PLATTE	050
Simon, Nathan M	ST. LOUIS METROP.	190
Simon, Sanford	METRO MED-GREATER KC	098
Simons, Paul S	ST. LOUIS METROP.	190
Simowitz, Fredric M	ST CHARLES-LINCOLN	189
Simpelo, Rustico V	MINERAL AREA	138
Simpson, Albert P	GREENE	082
Simpson, Joseph	ST. LOUIS METROP.	190
Simril, Wayne A	ST. LOUIS METROP.	190
Sims, Wm A Jr.	ST. LOUIS METROP.	190
Sinasa, Surat	DUNKLIN	070
Sinclair, Richard H	METRO MED-GREATER KC	098
Sincox, Chas H	F-G-W	074
Singh, Amolak	BOONE	026
Singh, Linda C	METRO MED-GREATER KC	098
Singh, Surgit	CALLAWAY	038
Singhal, Gokul C	ST. LOUIS METROP.	190
Singleton, Charles M	METRO MED-GREATER KC	098
Singleton, John M	METRO MED-GREATER KC	098
Singleton, Marvin A	JASPER	102
Singsen, Bernhard H	BOONE	026
Sinnett, Mark F	METRO MED-GREATER KC	098
Siripipat, Pallop	AUDRAIN	014
Sirridge, Marjorie J	METRO MED-GREATER KC	098
Sirridge, Wm T	METRO MED-GREATER KC	098
Sisk, James C	ST. LOUIS METROP.	190
Sislen, Donald R	ST. LOUIS METROP.	190
Sisler, Maynard L	DUNKLIN	070
Sisson, Richard G	ST. LOUIS METROP.	190
Sitzmann, Bryan L	CLAY-PLATTE	050
Siu, Kenneth K C	COLE	058
Skelley, Mark J	JASPER	102
Skillman, Robt K	METRO MED-GREATER KC	098
Skimming, W. Lee	ST. LOUIS METROP.	190
Skinner, John T	METRO MED-GREATER KC	098

---

* Doctor of osteopathy

Skinner, John S	ST. LOUIS METROP.	190
Sklenar, Donald E	BUCHANAN	030
Skor, Donald A	ST. LOUIS METROP.	190
Slack, Melinda R	GREENE	082
Slahorek, George J	MID-MISSOURI	135
Slankard, J E	METRO MED-GREATER KC	098
Slaughter, Carl R	CLAY-PLATTE	050
Slavin, Raymond G	ST. LOUIS METROP.	190
Slentz, Edwin L	METRO MED-GREATER KC	098
Slentz, Wm A	METRO MED-GREATER KC	098
Sletten, Ivan W	ST. LOUIS METROP.	190
Slocum, Stephen G	ST. LOUIS METROP.	190
Sly, Anne K	METRO MED-GREATER KC	098
Smaga, Sharon A	CAPE GIRARDEAU	042
Smeltzer, Frederick M	LAKE OF THE OZARKS	120
Smiley, Wm L	ST. LOUIS METROP.	190
Smit, Herbert M	ST. LOUIS METROP.	190
Smith, Arthur B	METRO MED-GREATER KC	098
Smith, Benj F	ST. LOUIS METROP.	190
Smith, C. Byron III	METRO MED-GREATER KC	098
*Smith, Chas H	CLAY-PLATTE	050
Smith, Claude F	SOUTH CENTRAL	206
*Smith, Cyrus D	BUCHANAN	030
Smith, David Lambuth	METRO MED-GREATER KC	098
Smith, Dennis W	JASPER	102
Smith, Dermott A	ST. LOUIS METROP.	190
Smith, Elbert E	METRO MED-GREATER KC	098
Smith, Emily L	ST. LOUIS METROP.	190
Smith, Garland F	ST. LOUIS METROP.	190
Smith, Herbert P	ST. LOUIS METROP.	190
Smith, Hubert E	METRO MED-GREATER KC	098
Smith, Hugh R	ST. LOUIS METROP.	190
Smith, J. Ned	BOONE	026
Smith, James B	ST. LOUIS METROP.	190
Smith, Katherine W	METRO MED-GREATER KC	098
Smith, Kathleen	ST. LOUIS METROP.	190
Smith, Kenneth B	F-G-W	074
Smith, Kenneth R Jr.	ST. LOUIS METROP.	190
Smith, Morton E	ST. LOUIS METROP.	190
Smith, Norman E	ST. LOUIS METROP.	190
Smith, Othello D	METRO MED-GREATER KC	098
Smith, Page A	METRO MED-GREATER KC	098
Smith, Patrick A	BOONE	026
Smith, Peter G	ST. LOUIS METROP.	190
Smith, Reid C	METRO MED-GREATER KC	098
Smith, Robt W	GRAND RIVER	078
Smith, Robt W	ST. LOUIS METROP.	190
Smith, Roland T	JASPER	102
Smith, Sally M	ST. LOUIS METROP.	190
Smith, Sidney E	ST. LOUIS METROP.	190
Smith, Ted P	MID-MISSOURI	135
Smith, W. Russell	JASPER	102
Smith, Wallace B	METRO MED-GREATER KC	098
Smith, Wm J	HENRY	086
Smithson, Debra S	CAPE GIRARDEAU	042
Smoller, Martin B	ST CHARLES-LINCOLN	189
Smuckler, David	ST. LOUIS METROP.	190
Snavely, Sharon R	METRO MED-GREATER KC	098
Snead, William H	GREENE	082
Sneid, David S	METRO MED-GREATER KC	098
Snidle, William F	JEFFERSON	106
Snow, Emasue	GREENE	082
Snow, Jon F	GREENE	082
Snyder, Christopher H Jr	GREENE	082
Sobky, George H	ST. LOUIS METROP.	190
Soha, Joseph J	BOONE	026
Sohn, Daniel G	BOONE	026
Sohn, Richard	ST. LOUIS METROP.	190
Solanki, Nareshkumar J	ST. LOUIS METROP.	190
Sollars, Eric G	METRO MED-GREATER KC	098
Solomon, Felix G	ST. LOUIS METROP.	190
Solomon, Nancy A	BOONE	026
Soltys, Stephen M	BOONE	026
Sommer, Conrad S	ST. LOUIS METROP.	190
Sommer, Rand W	ST. LOUIS METROP.	190
Sommer, Ross B	ST. LOUIS METROP.	190
Somoza, Jose R	CLAY-PLATTE	050
Soorya, Narendir T	ST. LOUIS METROP.	190
Sopuch, John A	ST. LOUIS METROP.	190
Sosebee, Lee A	BOONE	026
Sosna, Jacob P	ST. LOUIS METROP.	190
Soto, Albert A	ST. LOUIS METROP.	190
Soucy, John C	ST CHARLES-LINCOLN	189
Sourk, Robert L	BUCHANAN	030
Sowash, James J	BOONE	026
Spade, Diana J	GREENE	082
Spake, Robert V	METRO MED-GREATER KC	098
Spalding, David L	GREENE	082
Spalding, Donald G	ST. LOUIS METROP.	190
Spalding, Wilber B Jr.	METRO MED-GREATER KC	098
Spalding, Wilber B Sr	CLINTON	054
Sparkman, Thomas C	CAPE GIRARDEAU	042
Spaulding, Kenneth A	METRO MED-GREATER KC	098
Speckman, Jerry M	METRO MED-GREATER KC	098
Spector, Gene W	ST. LOUIS METROP.	190
Spector, Gershon	ST. LOUIS METROP.	190
Speiser, James C	ST. LOUIS METROP.	190
Spence, Paul A	CAPE GIRARDEAU	042
Spencer, Andrew	ST. LOUIS METROP.	190
Spencer, Donald C	CALLAWAY	038
Spencer, Donald M	METRO MED-GREATER KC	098
Spencer, Jean F	ST. LOUIS METROP.	190
Speno, Angelo A	ST. LOUIS METROP.	190
Spernoga, John F	ST. LOUIS METROP.	190
Spewak, Robert D	ST. LOUIS METROP.	190
Spies, Barbara J	METRO MED-GREATER KC	098
Spitler, Allen L	CAPE GIRARDEAU	042
Spivack, Alan R	ST. LOUIS METROP.	190
Spoeneman, Marlin C	ST. LOUIS METROP.	190
Sponenberg, Don D	GREENE	082
Sportsman, Weldon L	CLAY-PLATTE	050
Sprague, Gita	METRO MED-GREATER KC	098
Spraul, James H	ST. LOUIS METROP.	190
Sprehe, Samuel E	ST. LOUIS METROP.	190
Spurgat, Robert M	BUCHANAN	030
Spurgeon, Milo J	BOONE	026
Spurgeon, Stephen	ST. LOUIS METROP.	190
Spurney, Joe E	METRO MED-GREATER KC	098
Spurny, Otto M	METRO MED-GREATER KC	098
Spurrier, Mark H	JEFFERSON	106
Squitieri, Alphonse J	ST. LOUIS METROP.	190
Srisuro, Chotchai	ST. LOUIS METROP.	190
Srivisal, Somnuk	ST. LOUIS METROP.	190
St. John, Donald R	JASPER	102
Staab, Gerald E	METRO MED-GREATER KC	098
Stacey, Wallace R	METRO MED-GREATER KC	098
Stafford, Joseph W Jr.	SOUTH CENTRAL	206
Stafford, Walter R	ST. LOUIS METROP.	190
Staggs, Wm A	METRO MED-GREATER KC	098
*Stahly, Randall L	CAPE GIRARDEAU	042
Stahr, William D	CAPE GIRARDEAU	042
Staley, David L	GRAND RIVER	078
Stallard, Donald J	BUCHANAN	030
Stamatis, John J	GREENE	082
Stanfield, Ned M	ST. LOUIS METROP.	190
Stanley, Charles G	METRO MED-GREATER KC	098
Stanley, John H	METRO MED-GREATER KC	098
Stanton, Danny K	METRO MED-GREATER KC	098
Starke, Keith M	ST. LOUIS METROP.	190
Starkloff, Gene B	ST. LOUIS METROP.	190
Starks, Gregory C	METRO MED-GREATER KC	098
Stass-Isern, Merrill L	METRO MED-GREATER KC	098
Statland, Harry	METRO MED-GREATER KC	098
Statland, Morris	METRO MED-GREATER KC	098
Staton, R H	GRAND RIVER	078
Stauffer, Harry B	COLE	058
Stauffer, Larry K	COLE	058
Stavrides, Pete D	ST. LOUIS METROP.	190
Steel, Maxwell W	METRO MED-GREATER KC	098
Steele, Jack T	ST. LOUIS METROP.	190
Steele, James C	NORTHEAST	150
Steffen, Lawrence F	METRO MED-GREATER KC	098
Stegeman, Dale M	ST. LOUIS METROP.	190
Stehr, Christian H	METRO MED-GREATER KC	098
Steiling, Sylvia A	ST. LOUIS METROP.	190
Steiman, Barry	ST CHARLES-LINCOLN	189
Stein, Harry J	ST. LOUIS METROP.	190
Stein, Paul M	ST. LOUIS METROP.	190
Steinberg, Franz U	ST. LOUIS METROP.	190
*Steinberg, Lee M	CLAY-PLATTE	050
Steinberger, Robert	F-G-W	074
*Steinbrecher, Janis M	METRO MED-GREATER KC	098
Steiner, Alexander J	ST. LOUIS METROP.	190
Steinhardt, George F	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Steinhaus, David M	METRO MED-GREATER KC	098
Stelmach, Walter J	METRO MED-GREATER KC	098
Stephen, C. Ronald	ST. LOUIS METROP.	190
Stephens, Jack D	METRO MED-GREATER KC	098
Stephens, Wm A	ST. LOUIS METROP.	190
Stephenson, Hugh E	BOONE	026
Stephenson, Robert E	METRO MED-GREATER KC	098
Stergen, Nick E	ST. LOUIS METROP.	190
Sterkel, Richard L	ST. LOUIS METROP.	190
Stern, Thos L	METRO MED-GREATER KC	098
Stevens, Edward M	BUCHANAN	030
Stewart, Harry A	METRO MED-GREATER KC	098
Stewart, James L	CLAY-PLATTE	050
Stewart, L Paul	ST. LOUIS METROP.	190
Stewart, Robt B	GREENE	082
Stewart, W. B.	BOONE	026
Stewart, Wendell	GREENE	082
Stiaszny, Louis K	METRO MED-GREATER KC	098
Stickle, Arthur W	ST. LOUIS METROP.	190
Stickley, Louis P	ST. LOUIS METROP.	190
Stidman, Frederick C	JASPER	102
Stiehl, James B	ST. LOUIS METROP.	190
*Stillie, G. Donald	METRO MED-GREATER KC	098
Stillings, Wayne	ST. LOUIS METROP.	190
Stindel, Chas E	ST. LOUIS METROP.	190
Stine, Gordon W	GREENE	082
Stinnett, D. Mitchell	JASPER	102
Stitt, Ronald W Jr.	METRO MED-GREATER KC	098
Stockton, Raymond W	METRO MED-GREATER KC	098
Stockwood, Robt C	PETTIS	178
*Stoddard, James M	METRO MED-GREATER KC	098
Stoecker, Willeford J	CAPE GIRARDEAU	042
Stohr, Paul E	ST. LOUIS METROP.	190
Stokes, James M	ST. LOUIS METROP.	190
Stoliar, Bruce	ST. LOUIS METROP.	190
Stoneman, William III	ST. LOUIS METROP.	190
Stout, Carl N	METRO MED-GREATER KC	098
Stoy, Robt P	BOONE	026
Stradford, H. Todd	BOONE	026
Strain, Herb A	METRO MED-GREATER KC	098
Stratemeier, Edward H	METRO MED-GREATER KC	098
Stratman, Clarence A	CLAY-PLATTE	050
Stratmann, Henry G	ST. LOUIS METROP.	190
Straub, David L	JASPER	102
Strauss, Carl F	METRO MED-GREATER KC	098
Strecker, William B	ST. LOUIS METROP.	190
Strehlman, Benj G	F-G-W	074
Stribling, Thos L	METRO MED-GREATER KC	098
Stricker, Eamil A	MID-MISSOURI	135
Stricker, Harold C	COLE	058
Stricker, William E	MID-MISSOURI	135
Strickland, James C	ST. LOUIS METROP.	190
Strickler, Donna G	METRO MED-GREATER KC	098
Stringer, Kenton L	OZARKS	166
Strobach, Kurt F	ST. LOUIS METROP.	190
Strobach, Robt L	WEST CENTRAL	214
Stromberg, Eric D	METRO MED-GREATER KC	098
Stronach, Linda L	ST. LOUIS METROP.	190
Stronsky, David	ST. LOUIS METROP.	190
Stroud, Malcolm H	ST. LOUIS METROP.	190
Struss, Andrea L	BOONE	026
Stryker, Wm I	ST. LOUIS METROP.	190
Stuart, Byron M	COOPER	062
Stuart, Danl D	C-M-M-R	046
Stubbs, Thomas R	SOUTH CENTRAL	206
Stuber, Robert R	BUCHANAN	030
Stuebner, Roland W	ST. LOUIS METROP.	190
Stuerman, Lawrence G	PIKE	186
Stufflebam, Brian W	ST CHARLES-LINCOLN	189
Stufflebam, Robt E	GREENE	082
Stuppy, Mark S	GREENE	082
Sturtevant, Harwood N	GREENE	082
Su, Philo S	COLE	058
Suarez, Alberto	METRO MED-GREATER KC	098
Suarez-Solar, Pedro L	ST CHARLES-LINCOLN	189
Suba, Antonio R	ST. LOUIS METROP.	190
Sublette, Glen L	METRO MED-GREATER KC	098
Subramanian, S.	JASPER	102
Suddarth, Sterling B	METRO MED-GREATER KC	098
Sudekum, Joseph M	ST. LOUIS METROP.	190
Sudholt, Alfred F	ST. LOUIS METROP.	190
Suenram, Mark R	METRO MED-GREATER KC	098
Sugarbaker, Everett D	COLE	058
Sulit, Arnulfo P	METRO MED-GREATER KC	098
Sull, Won-jong	PETTIS	178
Sullivan, Bradley H	METRO MED-GREATER KC	098
Sullivan, Christine	METRO MED-GREATER KC	098
Sullivan, Clement J	ST. LOUIS METROP.	190
Sullivan, Dan T	GREENE	082
Sullivan, John A	GREENE	082
Sullivan, S. Garrett	METRO MED-GREATER KC	098
Sullivan, Wm K	ST. LOUIS METROP.	190
Sullivan, Wm W	ST. LOUIS METROP.	190
Sumer, Cengiz M	ST. LOUIS METROP.	190
Sumer, Emel A	ST. LOUIS METROP.	190
Summers, John B	ST. LOUIS METROP.	190
Summers, Jos S	COLE	058
Summers, Thos F	ST. LOUIS METROP.	190
Sunderman, Raymond C	ST. LOUIS METROP.	190
Sundermann, Richard H	ST. LOUIS METROP.	190
Sundstrom, Frank D	GREENE	082
Sunshine, Herbert	ST. LOUIS METROP.	190
Suseela, Dasari	METRO MED-GREATER KC	098
Sutter, Richard A	ST. LOUIS METROP.	190
Sutton, Richard L	METRO MED-GREATER KC	098
Suva, Morfeo M	GREENE	082
Suvan, R	B-W-R-C	034
Suwanabhand, Chalaw	WEST CENTRAL	214
Suwannasri, Ruenrudee	ST. LOUIS METROP.	190
Svancarek, Wm P	ST. LOUIS METROP.	190
Swaim, Truett	METRO MED-GREATER KC	098
Swaney, Charles M	BOONE	026
Swanson, Howard J	METRO MED-GREATER KC	098
Swaykus, Bernard T	ST. LOUIS METROP.	190
Sweeney, Thos P	GREENE	082
Sweet, Robert A	GREENE	082
Sweiger, James H	CLINTON	054
Swinfard, Ronald W	CAPE GIRARDEAU	042
Swope, Jos A	ST. LOUIS METROP.	190
Sword, Suzanne H	METRO MED-GREATER KC	098
Sylvanovich, W. Richard	ST. LOUIS METROP.	190
Szabados, Ernest D	METRO MED-GREATER KC	098
Szeto, J. Simon	METRO MED-GREATER KC	098
Szoko, Edward	ST. LOUIS METROP.	190
Szymanski, Stanley R	GRAND RIVER	078

T

Tailor, Chandrakant C	ST. LOUIS METROP.	190
Takacs, Robert J	METRO MED-GREATER KC	098
Talbert, Clifford R	CAPE GIRARDEAU	042
Talbott, Lawrence B	METRO MED-GREATER KC	098
Talwar, Tara	ST. LOUIS METROP.	190
Tamblyn, Claire L	METRO MED-GREATER KC	098
Tanaka, Geo M	ST. LOUIS METROP.	190
Tang, Teodoro	MID-MISSOURI	135
Tanner, Robt H	COLE	058
Tanphaichitr, Kongsak	ST. LOUIS METROP.	190
Tantana, Supranee	ST. LOUIS METROP.	190
Taormina, Marc K	METRO MED-GREATER KC	098
Tapuz, Jaime T	METRO MED-GREATER KC	098
Tarneja, Kailash C	SOUTH CENTRAL	206
Tarrasch, Ernest L	GREENE	082
Tashma, Sigmund S	ST. LOUIS METROP.	190
Tatkow, Robert W	ST. LOUIS METROP.	190
Taussig, Barrett L	ST. LOUIS METROP.	190
Taute, Hermann	ST. LOUIS METROP.	190
Taylor, Eugene D	ST. LOUIS METROP.	190
Taylor, Henry M	BOONE	026
Taylor, John R.W.	METRO MED-GREATER KC	098
Taylor, Leon A	COLE	058
Taylor, Philip W	CAPE GIRARDEAU	042
Taylor, Steve J	AUDRAIN	014
Taylor, William K	GREENE	082
Taylor, Wm E	GREENE	082
Tayob, Anver A	ST. LOUIS METROP.	190
Teeter, Brian H	JASPER	102
Tegtmeyer, Chris	LACLEDE	115
Tejero, Jonas S	ST CHARLES-LINCOLN	189
Tekwani, Hiralal T	ST. LOUIS METROP.	190
Tella, Nalini	METRO MED-GREATER KC	098
Templer, Jerry W	BOONE	026
Temporal, Jose A	ST. LOUIS METROP.	190
Tendai, Mark M	GREENE	082

---

* Doctor of osteopathy.

Tenorio, Arturo A	NORTHWEST	158
Tenorio, Genoveva	NORTHWEST	158
Tepper, Arnold	ST. LOUIS METROP.	190
Ternberg, Jessie L	ST. LOUIS METROP.	190
Terry, Boyd E	BOONE	026
Terry, James W	CAPE GIRARDEAU	042
Terry, James F	GREENE	082
Terschluse, David A	ST. LOUIS METROP.	190
Tess, Allen F	ST. LOUIS METROP.	190
Tess, Melvin J	ST. LOUIS METROP.	190
Tessier, John E	ST. LOUIS METROP.	190
*Tewis, Huey D	CAPE GIRARDEAU	042
Thalblum, Harvey	METRO MED-GREATER KC	098
Thale, Thos R	ST. LOUIS METROP.	190
Tharp, Judith L	LAKE OF THE OZARKS	120
Thawley, Stanley	ST. LOUIS METROP.	190
Theel, Otto W	METRO MED-GREATER KC	098
Thibeault, Donald W	METRO MED-GREATER KC	098
Thiel, J. Allen	ST. LOUIS METROP.	190
Thiele, Belmont R	ST. LOUIS METROP.	190
Thiele, Geo H	METRO MED-GREATER KC	098
Thiele, Otto K	ST CHARLES-LINCOLN	189
Thierauf, Chas G	ST. LOUIS METROP.	190
Thies, Jerome H	WEST CENTRAL	214
Thoma, Geo E Jr.	ST. LOUIS METROP.	190
Thomas, Alexis G	METRO MED-GREATER KC	098
Thomas, Christopher Y	METRO MED-GREATER KC	098
Thomas, Fred A	CLAY-PLATTE	050
Thomas, Horace E	BOONE	026
Thomas, J. Regan	ST. LOUIS METROP.	190
Thomas, James J	METRO MED-GREATER KC	098
Thomas, Lewis J JR	ST. LOUIS METROP.	190
Thomas, Maria D	BOONE	026
*Thomas, Norvin E	AUDRAIN	014
Thomas, Robert M	BOONE	026
Thomas, Roy L	ST. LOUIS METROP.	190
*Thomas-Richards, Jose R	METRO MED-GREATER KC	098
Thomasson, David D	GREENE	082
Thomasson, Jeffrey L	ST. LOUIS METROP.	190
Thomasson, Mary W	ST. LOUIS METROP.	190
Thomasson, Robert E	ST. LOUIS METROP.	190
Thompson, C. Leslie	METRO MED-GREATER KC	098
Thompson, David E	METRO MED-GREATER KC	098
Thompson, F Gregg	BUCHANAN	030
Thompson, Frederick L	WEST CENTRAL	214
Thompson, M. Bryant	ST. LOUIS METROP.	190
Thompson, Scott W	METRO MED-GREATER KC	098
Thomson, William M	ST. LOUIS METROP.	190
Thornton, Fred H	SEMO	202
Thorpe, William P	CAPE GIRARDEAU	042
Throne, Ben J	METRO MED-GREATER KC	098
Thurmann, Manfred	ST. LOUIS METROP.	190
Thurston, Donald L	ST. LOUIS METROP.	190
Tice, Wayne K	METRO MED-GREATER KC	098
Tichenor, Robt W	ST. LOUIS METROP.	190
Tietjen, Fred O	LAKE OF THE OZARKS	120
Till, Bennie N	B-W-R-C	034
Tillema, David A	METRO MED-GREATER KC	098
Tillman, Mary A	ST. LOUIS METROP.	190
Tillman, Walter W	GREENE	082
Tindall, Robt N	ST. LOUIS METROP.	190
Tinsley, John C	BOONE	026
Tiojanco, Milagros E	METRO MED-GREATER KC	098
Tippett, Jack C	ST. LOUIS METROP.	190
Titterington, Frank W	METRO MED-GREATER KC	098
Tobey, Albro C Jr.	ST. LOUIS METROP.	190
Tobin, Marla J	LAFAYETTE-RAY	118
Tobin, Robert F	BUCHANAN	030
Tombridge, Thos L	GREENE	082
Tompson, Robt V	C-M-M-R	046
Tonelli, Geo L	ST. LOUIS METROP.	190
*Toney, Michael P	B-W-R-C	034
Torin, Bernice A	ST. LOUIS METROP.	190
Toro, Enrique F	ST. LOUIS METROP.	190
Toro, Jaime	ST. LOUIS METROP.	190
Torontow, Raphael J	WEST CENTRAL	214
Totty, William G	ST. LOUIS METROP.	190
Toubes, Daniel B	METRO MED-GREATER KC	098
Trammell, Lee W	BOONE	026
Trantham, David M	CAPE GIRARDEAU	042
Traxel, Wm L	B-W-R-C	034
Treiman, Robt C	ST. LOUIS METROP.	190
Trevor, Richard P	METRO MED-GREATER KC	098
Trigg, Joseph F	ST. LOUIS METROP.	190
Trimble, Geo X	METRO MED-GREATER KC	098
*Trimmer, Kenneth B	ST. LOUIS METROP.	190
Trinidad, Hermanito R	GRAND RIVER	078
Triplett, Danl A	CLAY-PLATTE	050
Triska, Roland A	ST. LOUIS METROP.	190
Troeh, Melvin R	METRO MED-GREATER KC	098
Trombka, Lawrence H	BOONE	026
Trotta, Philip C	ST. LOUIS METROP.	190
Trotter, Francis O Jr.	ST. LOUIS METROP.	190
Trotter, John L	ST. LOUIS METROP.	190
Trotter, W. Yates	GREENE	082
Trowbridge, Barnard C	METRO MED-GREATER KC	098
Trowbridge, Ellsworth	METRO MED-GREATER KC	098
Troxil, Elizabeth B	GREENE	082
True, James D	CLAY-PLATTE	050
Trueblood, Alva C	ST. LOUIS METROP.	190
Trueblood, Michael C	CAPE GIRARDEAU	042
Trugly, Edith S	ST. LOUIS METROP.	190
Truitt, William R	GREENE	082
Trumbower, Wm D	BOONE	026
Trunko, Leo	ST. LOUIS METROP.	190
Tsang, John L	GREENE	082
Tschoe, Bjong suhn	ST. LOUIS METROP.	190
Tschudin, Garland	ST. LOUIS METROP.	190
Tsifutis, Argyrios A	ST. LOUIS METROP.	190
Tucker, Dolores R	ST. LOUIS METROP.	190
Tucker, Eugene F	ST. LOUIS METROP.	190
Tucker, Geo L	ST. LOUIS METROP.	190
Tucker, Leslie E	F-G-W	074
Tucker, Robert E	ST. LOUIS METROP.	190
Tully, Richard J	BOONE	026
Tuma, Arthur T	B-W-R-C	034
Tumanut, Benesto F	CLAY-PLATTE	050
Tung, Robert T	METRO MED-GREATER KC	098
Tuohy, Gerald F	METRO MED-GREATER KC	098
Turano, Wm L	METRO MED-GREATER KC	098
Turfboer, Robert	JASPER	102
Turgeon, Ronald P	ST. LOUIS METROP.	190
Turnbaugh, Thomas R	C-M-M-R	046
Turner, Glenn O	GREENE	082
Turner, James D	F-G-W	074
Turner, Kirby L	B-W-R-C	034
Turner, Ronald M	METRO MED-GREATER KC	098
*Turner, Timothy T	ST. LOUIS METROP.	190
Turner, William A	WEST CENTRAL	214
Turner, William F	GREENE	082
Tutera, Dominic F	METRO MED-GREATER KC	098
Tutera, Gino	METRO MED-GREATER KC	098
Tuteur, Peter G	ST. LOUIS METROP.	190
Tuttle, Jay F	MINERAL AREA	138
Twardowski, Zbylut J	BOONE	026
Twedell, Donald L	ST. LOUIS METROP.	190
Twyman, Richard A	METRO MED-GREATER KC	098

U

Uchiyama, Robert C	ST. LOUIS METROP.	190
Uhlemann, John H	ST CHARLES-LINCOLN	189
Uhlemeyer, Henry A	ST. LOUIS METROP.	190
Uhrig, Jack R	SALINE	198
Ulett, Geo A	ST. LOUIS METROP.	190
Ulett, Pearl C	ST. LOUIS METROP.	190
Umar, Ibrahim S	ST CHARLES-LINCOLN	189
Underwood, Dick H	METRO MED-GREATER KC	098
Underwood, Johnson III	CLAY-PLATTE	050
Ungvari, Jos C	ST. LOUIS METROP.	190
*Unruh, Gregory L	JASPER	102
Upsher, Albert E	METRO MED-GREATER KC	098
Utterman, Wm F	PERRY-STE GENEVIEVE	174

V

Vacca, Jos B	ST. LOUIS METROP.	190
Vadlamani, S	ST. LOUIS METROP.	190
Vafi, Houshang	ST. LOUIS METROP.	190
Vajaranant, Manit	LAFAYETTE-RAY	118
Valach, Frank J	ST. LOUIS METROP.	190
*Vale, Janett A	METRO MED-GREATER KC	098
Vale, Janie R	GREENE	082
Valera, Salvador S	BUCHANAN	030

---

* Doctor of osteopathy.

Valtierra, Cesar A	ST. LOUIS METROP.	190
Van Amburg, Albert L III	ST. LOUIS METROP.	190
Van Biber, James T	METRO MED-GREATER KC	098
Van Buskirk, Terrance F	METRO MED-GREATER KC	098
Van Buskirk, Wm C	METRO MED-GREATER KC	098
Van Dyke, Elmer H	PETTIS	178
Van Norman, Robt T	ST. LOUIS METROP.	190
Van Osdol, Kelvin D	GREENE	082
Van Zanten, Niko A	WEST CENTRAL	214
VanderWoude, John C	ST. LOUIS METROP.	190
Vandivort, Paul M Jr.	ST. LOUIS METROP.	190
Vandover, John T	ST. LOUIS METROP.	190
Vannier, Michael W	ST. LOUIS METROP.	190
VanBiber, Jeffrey M	WEST CENTRAL	214
VanGoidsenhoven, Guy E	ST. LOUIS METROP.	190
VanStone, John C	BOONE	026
VanVranken, Eugene E	COLE	058
Vardeleon, Roger V	ST. LOUIS METROP.	190
Vargas, Jaime	CAPE GIRARDEAU	042
Vargas, Teodoro	ST. LOUIS METROP.	190
Varma, Devendra K	B-W-R-C	034
Vatterott, Paul B	ST. LOUIS METROP.	190
Vatterott, Paul B Jr.	ST. LOUIS METROP.	190
Vaughan, J R	ST. LOUIS METROP.	190
Vaughn, James W	METRO MED-GREATER KC	098
Vaughters, Frank M	METRO MED-GREATER KC	098
Veenstra, Sallie L	METRO MED-GREATER KC	098
Velander, Robert D	CAPE GIRARDEAU	042
Velasco, Ernesto T	ST. LOUIS METROP.	190
Venable, H. Philip	ST. LOUIS METROP.	190
*Venter, John L	JASPER	102
Vera, Enrique	METRO MED-GREATER KC	098
Verde, Julian N	ST. LOUIS METROP.	190
Verdught, Ammon L	METRO MED-GREATER KC	098
Vergara, Gerardo G	METRO MED-GREATER KC	098
Verzola, Eufemio G	JEFFERSON	106
Vest, James C	ST. LOUIS METROP.	190
Vetne, Erik S	C-M-M-R	046
*Vialle, Gene M	METRO MED-GREATER KC	098
Viamontes, Gloria E	ST. LOUIS METROP.	190
Viamontes, Jorge A	ST. LOUIS METROP.	190
Vianzon, Elizabeth R	ST. LOUIS METROP.	190
Vibulakaopun, Pairat	MINERAL AREA	138
Vickar, Garry M	ST. LOUIS METROP.	190
Vidals, Victor G	METRO MED-GREATER KC	098
Vidoloff, John C	GREENE	082
Vierling, Stephen E	ST. LOUIS METROP.	190
Viers, Wayne A	ST. LOUIS METROP.	190
Vighi, James R	ST. LOUIS METROP.	190
Vijungco, Herminia D	ST. LOUIS METROP.	190
Vijungco, Jose G	ST. LOUIS METROP.	190
Vilar, Pio M	ST. LOUIS METROP.	190
Villafuerte, Nila A	ST. LOUIS METROP.	190
Villafuerte, Renato G	ST. LOUIS METROP.	190
Villahermosa, Juanito L	ANDREW	010
Villamar, Elizabeth N	ST. LOUIS METROP.	190
Villanueva, Angela A	METRO MED-GREATER KC	098
Villarama, Antonio P	ST. LOUIS METROP.	190
Vilmer, Charles E	CLAY-PLATTE	050
Vilmer, Stephen E	CLAY-PLATTE	050
Vinjamuri, Madhav B	ST. LOUIS METROP.	190
Vinton, Thomas J	CLAY-PLATTE	050
Vinyard, Jack L	JASPER	102
Virant, John A	ST. LOUIS METROP.	190
Viril, Leonardo C	METRO MED-GREATER KC	098
Vitale, Anthony J	ST. LOUIS METROP.	190
Vitale, Nicholas S	ST. LOUIS METROP.	190
Vitale, Stephen J	ST. LOUIS METROP.	190
Vitale, Thomas J Jr.	ST. LOUIS METROP.	190
Vitale, Victoria A	ST. LOUIS METROP.	190
Vivian, Gary D	ST CHARLES-LINCOLN	189
Viviano, Jos G	ST. LOUIS METROP.	190
*Vlahovich, Gary A	ST. LOUIS METROP.	190
Vogel, Arthur P	METRO MED-GREATER KC	098
Vogel, Curt M	BOONE	026
*Vogelsang, Judith K	METRO MED-GREATER KC	098
Volini, Frederick I	COLE	058
Volk, Geo E	METRO MED-GREATER KC	098
Vollmar, Lewis C Jr.	ST. LOUIS METROP.	190
Von Lintel, Thomas	METRO MED-GREATER KC	098
Voshall, David L	METRO MED-GREATER KC	098
Votaw, Robt E	ST. LOUIS METROP.	190
Voth, Harold W	METRO MED-GREATER KC	098
Vournas, Christopher G	ST. LOUIS METROP.	190
Vournas, George C	ST. LOUIS METROP.	190

W

Wachter, Ronald M	GREENE	082
Wacker, Leo L	ST. LOUIS METROP.	190
Waddell, Kenneth E	GREENE	082
Waddell, Thomas H	METRO MED-GREATER KC	098
Wade, Larry A	GREENE	082
Wadlow, Ernest E	BUCHANAN	030
Waeckerle, Joseph F	METRO MED-GREATER KC	098
Wagan, Primitiva C	ST. LOUIS METROP.	190
Waggoner, Chas M	BOONE	026
Waggoner, Sharon E	BUCHANAN	030
Wagner, John R	ST. LOUIS METROP.	190
Wagner, Paul J	METRO MED-GREATER KC	098
Waite, John G	ST. LOUIS METROP.	190
Wakefield, Franklin H	METRO MED-GREATER KC	098
Wakeman, J Newton Sr	GREENE	082
Wakeman, Newt Jr	GREENE	082
Wakerlin, Geo E	BOONE	026
Wald, Stanley M	ST. LOUIS METROP.	190
Waldman, Richard A	METRO MED-GREATER KC	098
Waldman, Steven D	METRO MED-GREATER KC	098
Waldorf, James C	METRO MED-GREATER KC	098
Walentik, Corinne	ST. LOUIS METROP.	190
Walker, Ambrose T	SOUTH CENTRAL	206
*Walker, David Brooks	ST. LOUIS METROP.	190
Walker, Donald E Jr	CLAY-PLATTE	050
Walker, Francis S	ST. LOUIS METROP.	190
Walker, Gary K	GREENE	082
Walker, Harvey Jr.	ST. LOUIS METROP.	190
Walker, J Leslie	ST. LOUIS METROP.	190
Walker, Melvin O JR	GREENE	082
Walker, Orville C	METRO MED-GREATER KC	098
Walker, Paul W	JASPER	102
Walker, William M	GREENE	082
Wall, Emmett D	ST. LOUIS METROP.	190
Wall, Harry C	METRO MED-GREATER KC	098
Wall, Joe A	SOUTH CENTRAL	206
Wall, Leonard A	METRO MED-GREATER KC	098
Wall, Lester E	ST. LOUIS METROP.	190
Wall, Norman R	GREENE	082
Wallace, Darryl L	METRO MED-GREATER KC	098
Wallace, Edgar S	AUDRAIN	014
Walley, Lynn J	NORTHEAST	150
Walls, Joseph T	BOONE	026
Walsh, Barbara A	ST. LOUIS METROP.	190
Walsh, James W	ST. LOUIS METROP.	190
Walsh, Martin J	ST CHARLES-LINCOLN	189
Walter, Wm L	ST. LOUIS METROP.	190
Walters, Harold E	ST. LOUIS METROP.	190
Walters, Henry W	ST. LOUIS METROP.	190
Walters, Laura	BOONE	026
Walters, Richard C	ST. LOUIS METROP.	190
Walterscheid, John H	NORTHEAST	150
Walther, Roy A Jr.	ST. LOUIS METROP.	190
Waltman, Stephen R	ST. LOUIS METROP.	190
Walton, J. Douglas	SEMO	202
Waltrip, Roy T	SEMO	202
Waltz, James R	CLAY-PLATTE	050
Walz, Bruce J	ST. LOUIS METROP.	190
Walz, Colleen	METRO MED-GREATER KC	098
Wan, Shaw P	MID-MISSOURI	135
Wankum, Robert P	COLE	058
Wanless, Robert C	ST. LOUIS METROP.	190
Wantuck, Donald K	GREENE	082
Warady, Bradley A	METRO MED-GREATER KC	098
Ward, Dana S	BOONE	026
Ward, Joe W	LAFAYETTE-RAY	118
Ward, Mark	JASPER	102
Warres, Herbert L	GREENE	082
Washburn, John L	LAKE OF THE OZARKS	120
Washburn, Kenneth B	GREENE	082
Washington, Walter	ST. LOUIS METROP.	190
Wasserman, Alan	ST. LOUIS METROP.	190
*Wasserman, Gary S	METRO MED-GREATER KC	098
Wasserman, Gary M	ST. LOUIS METROP.	190
Wasserman, Helman C	ST. LOUIS METROP.	190
Wasserman, Mark S	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Waterfield, Jim R	GREENE	082
Waterman, Franklin M	CLAY-PLATTE	050
Waters, Hugh R	ST. LOUIS METROP.	190
Waters, Jeffrey A	METRO MED-GREATER KC	098
Waterson, Karl W	SOUTH CENTRAL	206
Wathanacharoen, Suchint	METRO MED-GREATER KC	098
Watkins, Geo L	MINERAL AREA	138
Watson, Trevor F	BOONE	026
Watts, Byron E	COLE	058
Watts, Clark C	BOONE	026
Watts, Samuel M	OZARKS	166
Waxelman, Roger J	ST. LOUIS METROP.	190
Waxman, Dan A	METRO MED-GREATER KC	098
Waxman, Herbert J	METRO MED-GREATER KC	098
Waxman, Jane Z	METRO MED-GREATER KC	098
Waxman, Joel E	GREENE	082
Waxman, Michael J	METRO MED-GREATER KC	098
Wayne, Sherwyn J	ST. LOUIS METROP.	190
*Weaver, Bruce E	BOONE	026
Weaver, Dana J	BOONE	026
Weaver, Mark E	BOONE	026
Weaver, Michael L	METRO MED-GREATER KC	098
Weaver, Steven C	METRO MED-GREATER KC	098
Webb, Harry E	METRO MED-GREATER KC	098
Webb, John M	CLAY-PLATTE	050
Webb, Paul B Jr.	ST. LOUIS METROP.	190
Webber, Wm B	ST. LOUIS METROP.	190
Webel, Richard R	BOONE	026
Weber, J. Russell	ST. LOUIS METROP.	190
Weber, Karen J	METRO MED-GREATER KC	098
Weber, Thomas R	ST. LOUIS METROP.	190
Webster, Raymond L	ST. LOUIS METROP.	190
Wee, Geo C	ST. LOUIS METROP.	190
Weeks, Geo R	CAPE GIRARDEAU	042
Weeks, Paul M	ST. LOUIS METROP.	190
Weible, Nancy E	MINERAL AREA	138
Weide, Allan R	CLAY-PLATTE	050
Weiford, Edward C	METRO MED-GREATER KC	098
Weigel, James W	BOONE	026
Weiler, Thos J	ST. LOUIS METROP.	190
Weinand, Ernest E	BUCHANAN	030
Weinhaus, Robt S	ST. LOUIS METROP.	190
Weinstein, Chas L	METRO MED-GREATER KC	098
Weinstein, Mary M	BOONE	026
Weinstein, Stephen H	BOONE	026
Weir, Don C	ST. LOUIS METROP.	190
Weir, Robt K	METRO MED-GREATER KC	098
Weir, Royal A	ST. LOUIS METROP.	190
Weis, Landy	ST. LOUIS METROP.	190
Weiss, Alan N	ST. LOUIS METROP.	190
Weiss, Howard	ST. LOUIS METROP.	190
Weiss, James J	COLE	058
Weiss, James M	BOONE	026
Weiss, Stuart	ST. LOUIS METROP.	190
Weiss, Terry D	ST. LOUIS METROP.	190
Weldon, Clarence S	ST. LOUIS METROP.	190
Weldon, Virginia V	ST. LOUIS METROP.	190
Wells, Donald E	METRO MED-GREATER KC	098
Wells, James A	METRO MED-GREATER KC	098
Wells, Samuel A Jr.	ST. LOUIS METROP.	190
Wells, Stanley D	METRO MED-GREATER KC	098
Welsh, Laurence C	ST. LOUIS METROP.	190
Welsh, Thomas E III	AUDRAIN	014
Welter, Eugene S	METRO MED-GREATER KC	098
Weltscheff, Christo A	HENRY	086
Wempe, Geo R	NORTHWEST	158
Wenneker, Alvin S	ST. LOUIS METROP.	190
Wenner, Herbert A	METRO MED-GREATER KC	098
Werner, Dean F	CLAY-PLATTE	050
Werner, F. Scott	CLAY-PLATTE	050
Werner, Franklin C	CLAY-PLATTE	050
Werner, Wm A	ST. LOUIS METROP.	190
Werth, Claude J	METRO MED-GREATER KC	098
Werth, Jos A	COLE	058
Wertheimer, Richard I	BOONE	026
*Wescott, Thomas P	JOHNSON	110
West, Harold D	METRO MED-GREATER KC	098
West, Jos W	ST. LOUIS METROP.	190
Westcott, Bruce R	CAPE GIRARDEAU	042
Westerfeld, Roy A	ST CHARLES-LINCOLN	189
Westerman, Robt N	ST. LOUIS METROP.	190
Westhoff, David D	COLE	058
Weston, Kenneth G	BOONE	026
Westrup, Ellsworth A	ST. LOUIS METROP.	190
Wetzel, Gus S	HENRY	086
Wexler, Stephen A	ST. LOUIS METROP.	190
Weyerich, Noel F	ST. LOUIS METROP.	190
Weygandt, Paul L Jr.	SOUTH CENTRAL	206
Weyman, Philip J	ST. LOUIS METROP.	190
Wheeler, Chas B	METRO MED-GREATER KC	098
Wheeler, Jeffery	GREENE	082
Wheeler, Paul D	CLAY-PLATTE	050
Wheeler, Robt L	WEST CENTRAL	214
Whitaker, James H	METRO MED-GREATER KC	098
White, Barry B	B-W-R-C	034
White, Bruce I	ST. LOUIS METROP.	190
White, Chas H	METRO MED-GREATER KC	098
White, David S	BOONE	026
White, Eugene F	MID-MISSOURI	135
White, Harry H	BOONE	026
White, James S	METRO MED-GREATER KC	098
White, Nelson P	COLE	058
White, Newton B	ST. LOUIS METROP.	190
White, R Ned	GREENE	082
White, Russell D	OZARKS	166
White, Stoughton F	METRO MED-GREATER KC	098
White, Wm E	METRO MED-GREATER KC	098
Whitener, Miles C	ST. LOUIS METROP.	190
Whiteside, Leo A	ST. LOUIS METROP.	190
Whitlock, C Courtney	GREENE	082
Whitman, Daniel S	METRO MED-GREATER KC	098
Whitmore, J S	METRO MED-GREATER KC	098
Whitsell, O. Earl	BUCHANAN	030
Whittaker, Chas K	METRO MED-GREATER KC	098
Whitten, J S	CAPE GIRARDEAU	042
Whitten, M. Foster	JASPER	102
Whittenberger, Brock P	CAPE GIRARDEAU	042
Whittico, James M	ST. LOUIS METROP.	190
Wiant, James R	ST. LOUIS METROP.	190
Wible, Jerry C	GREENE	082
Wice, Martin B	ST. LOUIS METROP.	190
Wicks, Edwin O	CLAY-PLATTE	050
Wiegand, Herbert C	ST. LOUIS METROP.	190
Wien, Irving A	METRO MED-GREATER KC	098
Wiench, Delane F	MID-MISSOURI	135
Wiener, Jonathan I	ST. LOUIS METROP.	190
Wientzen, Arthur S	METRO MED-GREATER KC	098
Wiesemeyer, Dan L	GREENE	082
Wiggins, Roland L	BOONE	026
Wilber, Robt D	METRO MED-GREATER KC	098
Wilbers, Raymond H	AUDRAIN	014
Wilbois, Ronald P	ST. LOUIS METROP.	190
Wilcox, Ruth E	JASPER	102
Wilhelm, Warren F	METRO MED-GREATER KC	098
Wilkins, Michael S	METRO MED-GREATER KC	098
Wilkinson, Chas B	METRO MED-GREATER KC	098
Wilkinson, David	ST. LOUIS METROP.	190
Wilkinson, Everett A	METRO MED-GREATER KC	098
Wilkinson, William E	CALLAWAY	038
Willcox, Roger A	BOONE	026
Willcoxon, Robert L	JASPER	102
Willey, Charles J	ST. LOUIS METROP.	190
Williams, Carol F	ST. LOUIS METROP.	190
Williams, Craig W	CAPE GIRARDEAU	042
Williams, Fred	BOONE	026
Williams, James R	OZARKS	166
Williams, John W IV	GREENE	082
Williams, John W	LAFAYETTE-RAY	118
Williams, John M	CLAY-PLATTE	050
Williams, Jos C	METRO MED-GREATER KC	098
Williams, Joseph	ST. LOUIS METROP.	190
Williams, Kathleen M	METRO MED-GREATER KC	098
Williams, Paul A	ST. LOUIS METROP.	190
Williams, Paul A	METRO MED-GREATER KC	098
Williams, R. Jerome Sr.	ST. LOUIS METROP.	190
Williams, Richard F	JASPER	102
*Williams, Robert J	BUCHANAN	030
Williams, Robt D	CLAY-PLATTE	050
Williams, Roland D	METRO MED-GREATER KC	098
Williams, Roy J Jr.	ST. LOUIS METROP.	190
Williams, Starks J	METRO MED-GREATER KC	098
Williamson, Geo L	CLAY-PLATTE	050
Williamson, Walter F	ST. LOUIS METROP.	190
Willig, Stephen J	ST. LOUIS METROP.	190

---

* Doctor of osteopathy.

Willis, H. Robert	ST. LOUIS METROP.	190
Willman, Charles R	BUCHANAN	030
Willman, Martin L	ST CHARLES-LINCOLN	189
Willman, Vallee L	ST. LOUIS METROP.	190
Willoughby, James W	METRO MED-GREATER KC	098
Willoughby, Jean B	METRO MED-GREATER KC	098
Willumsen, Henry C	BUCHANAN	030
Wilson, Alice H	JASPER	102
Wilson, Chas F	CAPE GIRARDEAU	042
Wilson, Clifford C	METRO MED-GREATER KC	098
Wilson, David E	CLAY-PLATTE	050
Wilson, Geo P	BOONE	026
Wilson, Roy E	GREENE	082
Wilson, Timothy A	CLAY-PLATTE	050
*Wilson, W. Timothy	GREENE	082
Wilson-Krechel, Susan L	BOONE	026
Wilt, David A	METRO MED-GREATER KC	098
Wilucki, Melvin R	ST. LOUIS METROP.	190
Wimmer, Warren J	ST. LOUIS METROP.	190
Windmiller, Eugene M	BOONE	026
Windsor, Chas E	ST. LOUIS METROP.	190
Windsor, David G	BUCHANAN	030
Winegar, Alvon C	COLE	058
Winer, Herbert J	METRO MED-GREATER KC	098
Winer, Michael H	ST. LOUIS METROP.	190
Winer, Nathaniel	METRO MED-GREATER KC	098
Wingkun, Edwin C	ST. LOUIS METROP.	190
Wingkun, Janet G	ST. LOUIS METROP.	190
Winkelman, Esther B	METRO MED-GREATER KC	098
Winkelmeyer, William K	BOONE	026
Winn, Geo W	COOPER	062
Winnacker, John L	BOONE	026
Winsky, Arlen D	GREENE	082
Winston, Bernard H	METRO MED-GREATER KC	098
Winston, Thomas R	METRO MED-GREATER KC	098
Winter, John H	ST. LOUIS METROP.	190
Winter, Tyrus D	ST. LOUIS METROP.	190
Winters, Kathleen	ST. LOUIS METROP.	190
Winthrop, James D	ST. LOUIS METROP.	190
Wipfler, Earl J	ST CHARLES-LINCOLN	189
Wise, Geo W	METRO MED-GREATER KC	098
Wise, Morris F	METRO MED-GREATER KC	098
Wissner, Seth E	ST. LOUIS METROP.	190
Withrow, Donald	ST. LOUIS METROP.	190
Withrow, John B	CLAY-PLATTE	050
Witt, Clyde M	ST. LOUIS METROP.	190
Witt, Fred W	MID-MISSOURI	135
Wittgen, Edward M	ST. LOUIS METROP.	190
Wittler, Harry A	ST. LOUIS METROP.	190
Wittmer, Marc R	GREENE	082
Wittmer, Saml C	GREENE	082
Woehl, Joseph J	METRO MED-GREATER KC	098
Wolanski, Eugene G	BUCHANAN	030
Wolf, Jack W	METRO MED-GREATER KC	098
Wolf, James A Jr.	ST. LOUIS METROP.	190
Wolf, Marion L	GREENE	082
Wolfe, Edward M	ST. LOUIS METROP.	190
Wolfe, James B	GREENE	082
Wolfe, John E	GREENE	082
Wolff, Dolores P	ST. LOUIS METROP.	190
Wolff, Gerald A	ST. LOUIS METROP.	190
Wolff, Harold D	ST. LOUIS METROP.	190
Wolff, Ray J	ST. LOUIS METROP.	190
Wolfgram, Edwin D	ST. LOUIS METROP.	190
Woltjen, John A	METRO MED-GREATER KC	098
Won, Russell	ST. LOUIS METROP.	190
Wonder, Donald	TRI-LAKES	208
Wong, Geo	GREENE	082
Wood, Barry C	METRO MED-GREATER KC	098
Wood, Charles E	TRI-LAKES	208
Wood, David G	METRO MED-GREATER KC	098
Wood, James A	ST. LOUIS METROP.	190
Wood, John A	ST. LOUIS METROP.	190
Wood, Thos O	B-W-R-C	034
Wood, Tommy L	ST. LOUIS METROP.	190
Woodruff, Calvin W	BOONE	026
Woods, Gerald M	METRO MED-GREATER KC	098
Woods, John J Jr.	ST. LOUIS METROP.	190
Woods, S. Dwight	METRO MED-GREATER KC	098
Woods, Walton C	METRO MED-GREATER KC	098
Woodward, Wm W	METRO MED-GREATER KC	098
Wool, Gerald	ST. LOUIS METROP.	190
Wooldridge, Wilfred E	GREENE	082
Woolery, William G	PETTIS	178
Woolsey, Robt M	ST. LOUIS METROP.	190
Wooten, Michael B	GREENE	082
Workman, Chas E	CLAY-PLATTE	050
Workman, Geo M	F-G-W	074
Worley, Chas A	PETTIS	178
Worth, Eugene R	GREENE	082
Wortmann, Robt F	METRO MED-GREATER KC	098
Wotawa, Wm J	ST. LOUIS METROP.	190
Woy, George H	CLAY-PLATTE	050
Wright, Andy J	GREENE	082
Wright, Earl J	CLAY-PLATTE	050
Wright, James R Jr.	ST. LOUIS METROP.	190
Wright, Jeffrey A	METRO MED-GREATER KC	098
Wright, Jeffrey M	ST. LOUIS METROP.	190
Wright, Keith A	D-H-P-D	066
Wright, R P	METRO MED-GREATER KC	098
Wu, Shuh Min	METRO MED-GREATER KC	098
Wu, Wm Q	METRO MED-GREATER KC	098
Wuellner, David H	PETTIS	178
Wulfers, Michael C	CAPE GIRARDEAU	042
Wulff, Geo J	ST. LOUIS METROP.	190
Wurm, Michael J	NORTHWEST	158
Wurr, Dieter H	ST. LOUIS METROP.	190
Wurster, Jerry B	METRO MED-GREATER KC	098
Wurster, W J	METRO MED-GREATER KC	098
Wyrsch, Leo M	GREENE	082

Y

Yalcin, Enver	ST. LOUIS METROP.	190
Yancey, Daniel L	GREENE	082
Yang, Chao Yung	ST. LOUIS METROP.	190
Yang, Henry K	BOONE	026
Yang, John S	PERRY-STE GENEVIEVE	174
Yannakakis, John E	ST. LOUIS METROP.	190
Yanover, Robert A	ST. LOUIS METROP.	190
Yanow, Mitchell	ST. LOUIS METROP.	190
Yap, Mardonio J	ST. LOUIS METROP.	190
Yarbro, John W	BOONE	026
Yasin, Fazle M	ST. LOUIS METROP.	190
Yassin, Kamal	ST. LOUIS METROP.	190
Yates, Charles L	BOONE	026
Yates, Darrel W	ST. LOUIS METROP.	190
Yates, Karen	CAPE GIRARDEAU	042
Yazdi, Tom M	ST. LOUIS METROP.	190
Yeast, John D	METRO MED-GREATER KC	098
Yedlin, Jay H	METRO MED-GREATER KC	098
Yesus, Yohannes W	BOONE	026
Ylagan, Amando Jr.	ST. LOUIS METROP.	190
Yoo, Chong-sup	JEFFERSON	106
Yoon, Jin S	GRAND RIVER	078
Yoselevsky, Robert	ST. LOUIS METROP.	190
Yost, John G JR	METRO MED-GREATER KC	098
Youll, Donald V	METRO MED-GREATER KC	098
Youmans, Ronald A	METRO MED-GREATER KC	098
Young, Calvin C	JASPER	102
Young, James E	METRO MED-GREATER KC	098
Young, Jesse W	METRO MED-GREATER KC	098
Young, Mark E	METRO MED-GREATER KC	098
*Young, Michael A	COLE	058
Young, Patricia A	CLAY-PLATTE	050
Young, Paul H	ST. LOUIS METROP.	190
Young, Robert A	ST. LOUIS METROP.	190
Young, Robt B	MID-MISSOURI	135
Young, Thomas J	BUCHANAN	030
Young, Vernon L	ST. LOUIS METROP.	190
Youngblood, James P	METRO MED-GREATER KC	098
Younger, Anita C	ST. LOUIS METROP.	190
Younger, Ernest	ST. LOUIS METROP.	190
Youssef, Redwan	GRAND RIVER	078
Yu, Mario K	METRO MED-GREATER KC	098
Yuhas, John A	METRO MED-GREATER KC	098

Z

Zacharias, Kulangara P	CALLAWAY	038
Zacharias, Sara	CALLAWAY	038
Zahn, Robt L	GREENE	082
Zahony, Ivan	METRO MED-GREATER KC	098

---

* Doctor of osteopathy.

Zahorsky, Theodore S	ST. LOUIS METROP.	190
Zarr, James S	METRO MED-GREATER KC	098
Zeffren, Joel L	ST. LOUIS METROP.	190
Zehnder, Kenneth W	ST. LOUIS METROP.	190
Zeigler, Jos M	ST. LOUIS METROP.	190
Zekert, Horst	ST. LOUIS METROP.	190
Zeller, William M	TRI-LAKES	208
Zerr, Charles H	METRO MED-GREATER KC	098
Zia, Rashid	ST. LOUIS METROP.	190
Ziegler, Robert E	ST. LOUIS METROP.	190
Ziemianski, Matthew C	METRO MED-GREATER KC	098
Zimmerman, Herbert B	ST. LOUIS METROP.	190
Zimmerman, Joe A	DUNKLIN	070
Zingale, Frank G	ST. LOUIS METROP.	190
Zink, Robert A	ST. LOUIS METROP.	190
Zink, Thomas K	ST. LOUIS METROP.	190
Zinn, Marcia V	METRO MED-GREATER KC	098
Zivnuska, Frederick R	ST. LOUIS METROP.	190
Zoffuto, Anthony C	CAPE GIRARDEAU	042
Zografakis, Geo H	ST. LOUIS METROP.	190
Zoller, David D	METRO MED-GREATER KC	098
Zotos, Veronica D	ST. LOUIS METROP.	190
Zuckner, Jack	ST. LOUIS METROP.	190
Zukaitis, Mark G	METRO MED-GREATER KC	098
Zukowski, Edward T	ST. LOUIS METROP.	190
Zweig, Steven C	BOONE	026
Zwerenz, Bruno H	METRO MED-GREATER KC	098
Zwirn, Hans B	ST. LOUIS METROP.	190
Zylka, John M	ST. LOUIS METROP.	190

Component Society Executives

Mr. G. Ronald Garrett
Executive Director
St. Louis Metropolitan Medical Society
3839 Lindell Blvd.
St. Louis, MO 63108
314/371-5225

Mr. Ron Cosens
Executive Director
Metropolitan Medical Society of Greater Kansas City
3036 Gillham Road
Kansas City, MO 64108
816/531-8432

Mr. James E. Thompson, Jr.
Executive Director
Greene County Medical Society
1200 E. Woodhurst, Bldg D-200
Springfield, MO 65804
417-887-1017

Ms. Lee Gibson
Executive Director
Boone County Medical Society
2100 I-70 Drive SW
P.O. Box 7083
314/445-6444

Mr. Lee G. Cochran
Executive Director
Cape Girardeau County Area Medical Society
Suite 320, H & H Bldg.
400 Broadway
Cape Girardeau, MO 63701
314/334-5691

Mrs. Patricia Quackenbush
Executive Director
Buchanan County Medical Society
Heartland Centre
701 Faraon
St. Joseph, MO 64501

Mrs. Judy Miller
Executive Director
Jasper County Medical Society
P.O. Box 2424
Joplin, MO 64803
417/624-3920

---

* Doctor of osteopathy

Roster of Members by Component Society

(Please note component societies are listed in alphabetical and numerical code order.)

010—ANDREW

Baker, Warren C FP
803 Highway 71 West
Savannah, MO 64485
816-324-3121
Kelley, Gilbert B FP
1104 W. Main
Savannah, MO 64485
816-324-3073
Villahermosa, Juanito L GS
803 Highway 71 West
Savannah, MO 64485
816-324-3121

014—AUDRAIN

Ahmann, Thomas M U
Landmark Bldg.
Mexico, MO 65265
Ajans, Zaki A P
704 E Monroe
Mexico, MO 65265
314-581-1785
Bradley, Wm W GP
120 N Rollins
Centralia, MO 65240
314-682-2101
Bunge, Nancy J PD
Old Farm Prof Ctr Suite B-E.
Mexico, MO 65265
314-581-5011
Carlson, John V PTH
Audrain Med Ctr
620 E. Monroe
Mexico, MO 65265
314-581-1760
Cohen, Harry B AN
Anesthesia Specialists
P O Box 598
Mexico, MO 65265
314-443-1161
Comfort, Geo D FP
Medical Bldg
626 Summit
Mexico, MO 65265
314-581-2348
Corrado, Joseph A GS
809 Medical Park Dr. #103
Mexico, MO 65265
314-581-3991
Creech, Fred T D
626 Summit
Mexico, MO 65265
314-581-1552
Critchlow, J. Thomas GS
809 Medical Park Drive
Mexico, MO 65265
314-581-8423
Cyriac, George K DR
620 E. Monroe
Mexico, MO 65265
314-581-1760
Daut, Donald W IM
200 E Monroe St
Mexico, MO 65265
314-581-3400
Davis, Leonard L ORS
1124 Tamaron Place
St. Louis, MO 63131
314-993-6855
Ekern, H. Peter FP
626 Summit
Mexico, MO 65265
314-581-2348
Forney, Joseph W CD
201 E. Monroe-Landmark Bldg.
Mexico, MO 65265
314-581-3240
Garcia, Chas L GP
13 Fairsite Dr.
Mexico, MO 65265
Gifford, David L GE
Medical Park Drive
Mexico, MO 65265
314-581-2152
Hoxworth, Gerald M DR
415 E Monroe
Mexico, MO 65265
314-581-1760
Huq, MD N OPH
Huq Professional Eye Service
Mexico Prof Bldg
Mexico, MO 65265
314-581-7790
Jolly, Benj N GS
1421 S. Jefferson
Mexico, MO 65265
Kallenbach, Glen P GP
Rt 5
Mexico, MO 65265
314-581-1356
Knappenberger, Kurt R ORS
720 Medical Park Drive
Mexico, MO 65265
314-581-6831
Mullen, Mary E IM
626 Summit
Mexico, MO 65265
314-581-8530
Muraywid, Ahmad H PD
212 E. Monroe
Mexico, MO 65265
314-581-0604
Nadinola, Chennaiah C GS
Jct Pleasant & 54 East
Farber, MO 63345
314-249-3400
Reddin, Patrick C OBG
P. O. Box 266
Mexico, MO 65265
314-581-7345
Rodes, Ned D GS
625 Lakeview
Mexico, MO 65265
Seabaugh, Janice L HNS
809 Medical Park Dr.
Mexico, MO 65265
314-581-7608
Siripipat, Pallop OBG
626 Summit St
Mexico, MO 65265
314-581-7040
Taylor, Steve J GP
321 North Washington
Mexico, MO 65265
314-581-1129
*Thomas, Norvin E PUD
209 E. Jackson
Mexico, MO 65265
314-581-8494
Wallace, Edgar S OTO
811 S. Jefferson St.
Mexico, MO 65265
Welsh, Thomas E III IM
714 Medical Park Dr.
Mexico, MO 65265
314-581-1040
Wilbers, Raymond H GS
Old Farm Professional Bldg
Mexico, MO 65265
314-581-2030

018—BARTON

Arnold, Herbert M GP
1204 Gulf St
Lamar, MO 64759
417-682-5584
Bickel, Vern T GS
202 West 2nd St.
Lamar, MO 64759
417-682-2161
Cain, Alvin R GP
P O Box 572
Lamar, MO 64759
417-682-3544
Carroll, Thos W GP
Box 368
Lamar, MO 64759
417-682-5584

026—BOONE

Abadir, Rushdy TR
500 Keene
Radiation Therapy
Columbia, MO 65201
314-443-4531
Abernathie, Dennis L ORS
3205 Lansing
P.O. Box O
Columbia, MO 65205
314-443-2402
Adams, Harold D PD
2265 11th Ave.
Sacramento, CA 95818
Ailor, Edgar I OTO
504 Woodridge Drive
Columbia, MO 65201
314-874-3300
Akhter, Jeanette E OBG
Department of OB/GYN
N625 Health Sciences Ct
Columbia, MO 65212
314-882-7937
Akhter, Mohammad N GPM
2400 Lynnwood Dr.
Columbia, MO 65203
314-751-2925
Allen, Jos E OTO
5813 St Charles Rd
Columbia, MO 65202
314-474-2742
Allen, Robert W PM
500 Keene St.
Columbia, MO 65201
314-449-2141
Allen, William Corwin ORS
Dept of Orthopaedics
M567 Health Science Ctr
Columbia, MO 65212
314-882-3104
Allen, Wm C GPM
508 W. Briarwood Lane
Columbia, MO 65203
314-445-4181
Alpert, Martin A IM
Room IE-65 Hlth Sciences Ctr
Columbia, MO 65212
314-882-2511
Alyea, James O AN
2506 Lynnwood Drive
Columbia, MO 65203
314-449-1207
Amromin, George D PTH
104 Defoe Court
Columbia, MO 65203
314-445-2348
Anderson, Ivan A PH
10 Hourigan Circle
Columbia, MO 65201
314-442-2304
Anderson, Philip C D
Clinic 3 Health Science Ctr
Columbia, MO 65212
314-882-3141
Anderson, Thos R P
204 Berrywood Med. Arts Bldg
3401 Berrywood Dr.
Columbia, MO 65201
314-449-2661
Arnold, Richard C PH
814 Yale
Columbia, MO 65203
314-445-2253
Arthaud, J B PTH
Pathology Laboratories Inc.
P.O. Box 7406
Columbia, MO 65205
314-449-2902
Arthur, Gerald L PTH
P.O. Box 7406
Columbia, MO 65205
314-449-2902
Asel, Norman D D
3419 Augusta Dr.
Columbia, MO 65203
314-442-8939
Asher, Irving M N
Stephens Park Medical Bldg.
1701 E. Broadway
Columbia, MO 65201
314-449-3408
Austin, James L GS
Dept of Surgery M580
One Hospital Dr.
Columbia, MO 65212
314-882-8145
Baker, Sherwood FP
2620 Walter Ct
Columbia, MO 65203
314-445-4065
Barbee, Chas W GS
1701 E. Broadway Suite 3
Columbia, MO 65201
314-876-1720
Barbero, Giulio J PD
Dept of Child Health
N708 Health Science Ctr
Columbia, MO 65212
314-882-6119
Barthel, James S IM
D-220 VA Hospital
800 Hospital Drive
Columbia, MO 65201
314-443-2511
Bauer, John H IM
Dept of Med/Nep
Health Science Ctr
Columbia, MO 65212
314-882-4893

---

* Doctor of osteopathy.

Beck, Marcus R PTH
601 East Rockcreek Drive
Columbia, MO 65203
314-445-6165
Beckett, Wm. Wilson ORS
201 W. Broadway
Columbia, MO 65203
314-875-4646
Beitman, Bernard D P
Dept of Psychiatry
C-6 Health Science Ctr
Columbia, MO 65212
314-882-2511
Belden, Jeffery L FP
1506 E. Broadway
Columbia, MO 65201
314-449-0808
Bennett, John E FP
3 Eubank Court
Columbia, MO 65203
314-445-3754
Birkby, Wm F FP
1506 East Broadway
Columbia, MO 65201
314-449-0808
Black, Saml P NS
300 S Glenwood Street
Columbia, MO 65203
314-443-8025
Blackburn, Michael D EM
Boone Hospital Center
1600 E. Broadway
Columbia, MO 65201
314-875-3501
Blackwell, Chas W DR
201 W Broadway
Columbia, MO 65203
314-443-7430
Blount, Gary L P
200 Old Hwy 63 South
Columbia, MO 65201
314-449-6335
Boles, Murray R
500 Keene St.
Columbia, MO 65201
314-443-4531
Bolesta, E. Stephen PTH
2901 West Rollins Road
Apt B-8
Columbia, MO 65203
Bonham, Roger D OPH
500 Keene St.
Columbia, MO 65201
314-449-3846
Bourgeois, Curtis H PTH
P. O. Box 7406
Columbia, MO 65205
314-449-2902
Bradshaw, Wm D FP
3410 Woodrail Terr
Columbia, MO 65203
314-882-5617
Braunschweig, Ralph AN
Rt. 4, Box 161
Columbia, MO 65203
314-443-2511
Brooks, Charles S IM
466 VA Hospital
800 Hospital Dr.
Columbia, MO 65201
314-443-2511
Brukardt, Diane T IM
Student Health Service
Univ of Mo
Columbia, MO 65211
314-882-7481
Bruner, Claude R OPH
Rte 70 Box 120
Camdenton, MO 65020
314-346-2447
Bucher, William C PTH
P.O. Box 7406
Columbia, MO 65205
314-449-2902
Buchert, Peter K ORS
3205 Lansing P.O.Box 0
Columbia, MO 65205
314-443-2402
Bumgarner, James E U
703 W. Rollins Rd.
Columbia, MO 65203
314-442-0252
Bumgarner, Roger W AN
P.O. Box 975
Columbia, MO 65205
314-449-6280
Burkman, Kip A PMR
501 Rusk Rehab Center
One Hospital Dr.
Columbia, MO 65212
314-882-3101
Burns, Robert P OPH
Dept of Ophalmology
Mason Institute of Oph
Columbia, MO 65212
314-882-1027
Burns, Thos W IM
310 E Brandon Rd
Columbia, MO 65203
314-882-2273
Butt, James H GE
A220C VA Hospital
800 Hospital Dr.
Columbia, MO 65201
314-445-6672
Byer, John A N
Department of Neurology
M741 Health Science Ctr
Columbia, MO 65212
314-882-3133
Bynum, Wm R PTH
3208 Woodvalley Way
Columbia, MO 65203
314-443-7728
Canoy, Nestor R TR
Rad/Onc Inc. 3401 Berrywood
P. O. Box 1508
Columbia, MO 65205
314-875-8101
Carmignani, Sharon IM
Department of Medicine
M465 Health Science Ctr
Columbia, MO 65212
314-882-8788
Carnahan, Chas E PD
Boone Clinic
401 Keene St.
Columbia, MO 65201
314-876-1620
Carr, George W FP
1992 D. Waterfront
Columbia, MO 65202
314-992-2996
Carter, James S CDS
1701 E. Broadway Suite 3
Columbia, MO 65201
314-876-1720
Carter, Ronald D ORS
3205 Lansing Avenue
P. O. Box O
Columbia, MO 65205
314-443-2402
Chalkley, Judson I DR
614 W. Stewart Rd.
Columbia, MO 65203
314-449-6496
Chang, Chil K AN
1210 Danforth Dr.
Columbia, MO 65201
314-449-1207
Cheek, Chas W OPH
Columbia Eye Consultants
500 Keene St.
Columbia, MO 65201
314-449-3846
Cheng, Jesse W IM
912 Colgate
Columbia, MO 65203
314-882-4141
Clark, Frank I PD
404 Cumberland
Columbia, MO 65203
314-443-8985
Cochran, Donald Q R
1502 E Broadway
Columbia, MO 65201
314-443-4591
Colwill, Jack M FP
Rt 11 Countryshire Estates
Columbia, MO 65202
314-449-3333
Conway, Robert R PMR
5R-01 Rusk Rehab Center
Columbia, MO 65212
314-882-3101
Cooperstock, Michael S PD
Department of Child Health
M660 Univ Med School
Columbia, MO 65212
314-882-4932
Cope, James C U
Route #1 P.O. Box 37
Rocheport, MO 65279
314-698-2963
Couper, Nicholas B AN
2201 Fairmont
Columbia, MO 65203
314-882-2568
Crouch, John A CDS
1701 E. Broadway Suite 3
Columbia, MO 65201
314-874-1720
Crowley, Wm J N
Neurology Inc.
500 Keene
Columbia, MO 65201
314-449-2141
Cunningham, Milamari A AN
Cunningham Anesthesia
P. O. Box 1301
Columbia, MO 65205
314-442-2237
Cupp, Gerald V CD
401 Keene St.
Columbia, MO 65201
314-874-1630
Curry, Michael D PTH
2703 Clark Lane
P. O. Box 7406
Columbia, MO 65205
314-449-2902
Curtis, Jack J CDS
Cardiothoracic Surgery
MA312 Health Science Ct
Columbia, MO 65212
314-882-6954
Darnell, Thos F D
8 Oak Court Apt C
Branson, MO 65616
314-334-6230
Davis, Wm E OTO
Department of Otolaryngology
M583 Health Science Ctr
Columbia, MO 65212
314-882-8173
Delwood, Don M IM
Univ of MO Hosp & Clinics
Emergency Dept.
Columbia, MO 65212
314-882-8091
Denninghoff, James S ENT
3401 Berrywood
Columbia, MO 65201
314-874-2192
Denninghoff, James C IM
203 W Broadway
Columbia, MO 65203
314-449-1227
Devkota, Jagadishwar DR
Department of Radiology
Health Sciences Center
Columbia, MO 65212
314-882-8184
Dexheimer, Frank R GS
401 Keene
Columbia, MO 65201
314-874-3300
Dexter, James D N
Department of Neurology
M741 Health Science Ctr
Columbia, MO 65212
314-882-3133
DeSpain, John D D
M173 UMC Hospital
Columbia, MO 65212
314-882-3141
Ditmore, Q Michael NS
1701 E. Broadway
Columbia, MO 65201
314-449-3409
Dix, Jay D FOP
Department of Pathology
M646 Health Science Ctr
Columbia, MO 65212
314-882-1400
Dolan, Stephen A ID
13105 Turlev Branch Parkway
Rockville, MD 20853
Dooley, Thomas W PS
M349 #1 Hospital Dr.
Columbia, MO 65212
314-882-2275
Doroghazi, Robert M IM
Boone Clinic
401 Keene
Columbia, MO 65201
314-876-1630
Dueker, David K OPH
EC-139 Mason Eye Institute
Health Science Ctr
Columbia, MO 65212
314-882-1027
Duong, Mo Hong PTH
Ellis Fischel State Cancer
115 Business Loop 70 W
Columbia, MO 65203
314-875-2100
Early, James H GS
2013 Winchester Dr.
Columbia, MO 65202
314-882-8175
Easterday, Jerry L P
12905 Marcy St.
Omaha, NE 68154
402-330-2198
Edes, Thomas E IM
Dept of Medicine
Health Sciences Ctr
Columbia, MO 65212
314-449-3333
Eggers, Geo W AN
Department of Anesthesiology
3N15 Health Science Ctr
Columbia, MO 65212
314-882-2568
Estrem, Scott A OTO
MA314 Medical Science
1 Hospital Drive
Columbia, MO 65212
314-882-8173
Favazza, Armando R P
Department of Psychiatry
6 Health Science Ctr
Columbia, MO 65212
314-882-3176

---

* Doctor of osteopathy.

Ferneau, James E OBG
401 Keene St
Columbia, MO 65201
314-874-3300

Ferrari, Heriberto A AN
Department of Anesthesiology
3N25 Health Science Ctr
Columbia, MO 65212
314-882-2568

Foote, Jerry E D
1504 E Broadway
Columbia, MO 65201
314-442-3565

Frazier, Robt E P
113 W Broadway
Columbia, MO 65203
314-443-1508

Freeman, James A IM
Boone Clinic
401 Keene Street
Columbia, MO 65201
314-876-1630

Fuchs, Geo J OBG
3401 Berrywood Suite 201
Columbia, MO 65201
314-449-3884

Gagnon, Gregory A PTH
Univ of Mo Hosp & Clinics
Dept of Pathology
Columbia, MO 65212
314-882-1121

Gaines, Robert W ORS
M562 Health Sciences Ctr
1 Hospital Drive
Columbia, MO 65212
314-882-3104

Gainor, Barry J ORS
Department of Orthopaedics
M562 Health Science Ctr
Columbia, MO 65212
314-882-3104

Gaitonde, Mangesh R P
4393 Breezy Point
Lee's Summit, MO 64063

Garcia, Angel R IM
Ellis Fischel Cancer Center
115 Business Loop 70
Columbia, MO 65203
314-882-2215

Garrett, Glen H OTO
102 E. Brandon Road
Columbia, MO 65203
314-443-7358

Garrotto, Lewis J DR
814 Hulen Drive
Columbia, MO 65203
314-445-2386

Gaughan, Rebecca N OTO
Department of Surgery
UMC Health Science Ctr
Columbia, MO 65212
314-882-8178

Gaunt, Wm D IM
Div Immunology/Rheumatology
N403 Health Science Ctr
Columbia, MO 65212
314-882-7125

Gerhardt, Donald C IM
401 Keene St.
Columbia, MO 65201
314-874-3300

Goldstein, David E PD
Department of Child Health
M769 Health Science Ctr
Columbia, MO 65212
314-882-6979

Gordon, Bruce J AN
Columbia Anesthesia Assoc.
P. O. Box 7041
Columbia, MO 65205
314-449-1207

Griffin, Wm T OBG
Department of OB/GYN
N625 Health Science Ctr
Columbia, MO 65212
314-882-7937

*Guenthner, Brenda L PM
Rt 4, Box 418
Columbia, MO 65203
314-882-3101

Gurucharri, Vincent P TS
3401 Berrywood
Suite 104
Columbia, MO 65201
314-443-8773

Guyer, Emily PD
102 Student Health Center
University of Missouri
Columbia, MO 65211
314-882-7481

Haibach, Helmut NM
Department of Pathology
M646 Health Science Ctr
Columbia, MO 65212
314-882-1121

Hakami, Nasrollah HEM
Health Sciences Ctr
1 Hospital Dr.
Columbia, MO 65212
314-882-4929

Hall, David G OBG
Department of OB/GYN
N625 Health Science Ctr
Columbia, MO 65212
314-882-7937

Hardin, David B PM
5R-01 Rusk Rehab Ctr
Columbia, MO 65212
314-882-3101

Harris, Hugh S GS
3401 Berrywood Dr.
Suite #104
Columbia, MO 65201
314-443-8773

Harris, Robt J PD
Boone Clinic
401 Keene St.
Columbia, MO 65201
314-876-1620

Harrison, Winston E U
1220 Sunset Dr
Columbia, MO 65203
314-443-0596

Harry, Bruce E P
Dept Of Psychiatry
Health Sciences Center
Columbia, MO 65212
314-882-3176

Havey, Ann D PTH
112 Bingham Rd.
Columbia, MO 65203
314-874-6729

Havey, John ORS
201 West Broadway
Columbia, MO 65203
314-875-6109

Haw, Marvin T GER
1807 Jackson St
Columbia, MO 65202
314-449-7865

Heimburger, Richard A PS
1504 East Broadway Ste 217
Columbia, MO 65201
314-449-0508

Helikson, Mary A PDS
Dept. of Gen. Surg.
N307A Health Science Ct
Columbia, MO 65212
314-882-4156

Henzel, John H GS
1504 E. Broadway
Columbia, MO 65201
314-874-2158

Highland, Thomas R ORS
P.O. Box O
Columbia, MO 65205
314-443-2402

Hofmeister, Roger W FP
Ellis Fischel Cancer Ctr
115 Business Loop 70 W
Columbia, MO 65203
314-875-2100

Holekamp, Timothy OPH
500 Keene St. Suite 102
Columbia, MO 65201
314-449-3846

Holmes, Richard A NM
1111 Lakeside Drive
Columbia, MO 65203
314-443-2511

Horn, Arthur H PMR
5R-01 Rusk Rehab Center
One Hospital Dr.
Columbia, MO 65212
314-882-3101

Hoyt, Terry S DR
1012 Maplewood Dr.
Columbia, MO 65203
314-443-2511

Husain, S. Arshad CHP
2602 Johnson Drive
Columbia, MO 65203
314-445-7458

Hyatt, Robt W IM
113 W Broadway
Columbia, MO 65203
314-443-8746

Ide, Carl H OPH
1008 Bourn Ave
Columbia, MO 65203
314-882-1027

Irvin, William S IM
401 Keene Street
Columbia, MO 65201
314-874-3340

Jackson, Robt L PD
39th & Rainbow
Kansas City, KS 66103
816-491-5315

James, Elizabeth J PD
Department of Child Health
N723 Health Science Ctr
Columbia, MO 65212
314-882-7919

James, Ronald C END
610 W Blvd South
Columbia, MO 65203
314-443-2477

Johnson, Richard E PTH
129 Lindell Drive
Columbia, MO 65203
314-442-7237

Jones, Robert S P
Department of Mental Health
P.O.Box 687
Jefferson City, MO 65102
314-751-3944

Kantak, Anand G PD
Dept of Child Health
One Hospital Drive
Columbia, MO 65212
314-882-3996

Kaplan, Michael F PS
Plastic & Reconstructive Sur
1701 E. Broadway
Columbia, MO 65201
314-874-1700

Kaplan, Paul E PM
5R01 Rusk Rehab
Columbia, MO 65212
314-882-3101

Katnik, Richard J N
Dept Neurology
Health Sciences Ctr.
Columbia, MO 65212
314-882-3133

Kennett, Jerry D IM
401 Keene St.
Columbia, MO 65201
314-876-1630

Khanna, Ramesh IM
MA436 Health Sciences Ctr.
Division of Nephrology
Columbia, MO 65212
314-882-7614

Kim, Jin B PM
501 Rusk Rehab Center
One Hospital Dr.
Columbia, MO 65212
314-882-3101

Kimlinger, William R FP
Dept of Family Medicine
One Hospital Dr.
Columbia, MO 65212
314-882-2996

King, Robert J U
3401 Berrywood Dr.
Columbia, MO 65201
314-449-6260

Klachko, David M IM
Cosmopolitan Diabetes Ctr
Health Science Ctr.
Columbia, MO 65212
314-882-2265

Kline, Jeffrey J PD
Dept of Child Health
One Hospital Drive
Columbia, MO 65212
314-882-3961

Knudson, Dennis R OTO
2100 Southwood Dr.
Columbia, MO 65201
314-874-3300

Konig, Peter PD
Child Health 1 Hospital Dr.
Columbia, MO 65212
314-882-6978

Kraybill, William G GS
Ellis Fischel Cancer Hopital
115 Business Loop 70 W
Columbia, MO 65203
314-875-2100

Kroll, Ryszard B IM
2005 Robin Terrace
Columbia, MO 65203
314-875-1464

Lababidi, Zuhdi A PDC
Department of Child Health
N702 Health Science Ctr
Columbia, MO 65212
314-882-2501

Lachance, Leopold FP
324 S, Collier
Centralia, MO 65240
314-682-3721

Ladenson, Roland P IM
704 Westmount Ave.
Columbia, MO 65203
314-449-6997

Lamb, Rebecca L OBG
2307 Fairmont
Columbia, MO 65203
314-443-0449

Lamberti, Jos W P
Department of Psychiatry
6 Health Science Ctr.
Columbia, MO 65212
314-882-2511

Lampton, Lawrence M PUD
Doctor's Clinic Bldg.
1502 East Broadway
Columbia, MO 65201
314-874-3371

---

* Doctor of osteopathy.

Landhuis, Leo R OPH
Eye Research Foundation
404 Portland St
Columbia, MO 65201
314-442-0017
Laramore, Rosemary P
3508 Bray Ave.
Columbia, MO 65203
314-751-2929
Laster, Jerry L GS
N-512 1 Hospital Dr.
Columbia, MO 65212
314-882-3959
Lee, H. T. DR
1502 E. Broadway
Columbia, MO 65201
314-443-4591
Leeper, Claude K PTH
Department of Pathology
M646 Health Science Ctr
Columbia, MO 65212
314-882-1121
Leeper, Sidlee W IM
Box 42 Rt. 11
Columbia, MO 65203
314-445-6569
Lepkowski, Hemlata K R
Rt. 3 Box 307K
Sedalia, MO 65301
816-449-3931
Levine, Clive R
Department of Radiology
M201 Health Science Ctr
Columbia, MO 65212
314-882-8183
Levy, Walter J Jr NS
628 Huntridge Ct.
Columbia, MO 65201
314-882-4908
LeFevre, Michael L FP
Green Meadows Medical Clinic
3211 S. Providence Rd
Columbia, MO 65203
314-449-3333
Lising, Alexander A PMR
5R-01 Rusk Rehab Center
One Hospital Dr.
Columbia, MO 65212
314-882-3101
Litton, Lynn O ORS
3615 I-70 Drive SW
Columbia, MO 65203
314-445-4711
Litwiller, Raymond W GP
2707 Estevan Ave. Apt 302
Victoria Brit. Columbia
Canada V8R2T5, 00000
Llorens, Alfred S OBG
Department of OB/GYN
N607 Health Science Ctr
Columbia, MO 65212
314-882-7937
Loeppky, Carol B IM
113 W. Broadway
Columbia, MO 65203
314-449-0088
Logue, John T IM
912 Crestland Ave.
Columbia, MO 65203
314-449-5369
Lohmar, Roland E IM
113 W Broadway
Columbia, MO 65203
314-449-0088
Long, John W TS
1701 E. Broadway Suite 3
Columbia, MO 65201
314-876-1720
Lopez, Marvin J GS
Ellis Fischel Cancer Center
115 Business Loop 70 W.
Columbia, MO 65203
314-875-2214
Lucas, Luke W P
1506 E. Broadway #304
Columbia, MO 65201
314-874-4177
Maltby, James D R
Department of Radiology
N207 Health Science Ctr
Columbia, MO 65212
314-882-8183
Marienfeld, Robert D IM
Truman VA Hospital
800 Hospital Drive
Columbia, MO 65201
314-443-2511
Matias, Delia A PD
203 West Broadway
Columbia, MO 65203
314-875-2505
Maule, William F IM
Department of Medicine
UMC Health Science Ctr
Columbia, MO 65212
314-882-2285

Mayo, Joseph W PD
203 West Broadway
Columbia, MO 65203
314-443-0937
McCord, E. Scott AN
Department of Anesthesiology
N315 Health Science Ctr
Columbia, MO 65212
314-882-2568
McDavid, Robert E OBG
Women's Health Associates
201 West Broadway
Columbia, MO 65203
314-443-8796
McElroy, Glenn L ORS
3416 Woodrail Terrace
Columbia, MO 65203
314-443-2402
Mechlin, David C OTO
3401 Berrywood Dr. Ste. 301
Columbia, MO 65201
314-874-2192
Metzler, Michael H GS
Departmen of General Surgery
N307 Health Science Ctr
Columbia, MO 65212
314-882-8157
Meyers, Lee G PD
Dept of Child Health
1 Hospital Dr.
Columbia, MO 65212
314-882-3996
Miles, Judith H PD
Dept. of Child Health
M241 Health Science Ctr
Columbia, MO 65212
314-882-6991
Miller, Leroy J FP
32 Bingham Rd.
Columbia, MO 65203
314-442-4025
Millwee, Elizabeth M GP
503 Nifong Blvd Suite G
Columbia, MO 65201
314-449-2444
Mitchell, Franklin L GS
2200 Danforth Ct
Columbia, MO 65201
314-882-7956
Mitchell, Lynn D IM
401 Keene
Columbia, MO 65201
314-876-1600
Molina, Roy IM
401 Keene
Columbia, MO 65201
314-876-1600
Monaghan, Greg G IM
Hematology-Oncology Assoc.
3401 Berrywood Ste 303
Columbia, MO 65201
314-874-7800
Monroe, C. Dean P
405 Bernadette Dr.
Columbia, MO 65203
314-445-2362
Montie, Jos E U
Boone Clinic
401 Keene Street
Columbia, MO 65201
314-874-3300
Monzon, Carlos M PD
4365 Santa Anna
Columbia, MO 65201
314-449-8739
Morris, John J GP
P. O. Box 537
Columbia, MO 65205
314-474-5551
Mosby, Larry D PTH
107 E Brandon Rd
Columbia, MO 65203
314-449-2902
Mukerji, Vaskar IM
IE-65 Health Sciences Ctr
Columbia, MO 65212
314-882-7712
Murrell, H. Jerry TR
Radiology Consultants, Inc.
1502 E. Broadway Rm 102
Columbia, MO 65201
314-875-3349
Muscato, Joseph J IM
3401 Berrywood Dr.
Columbia, MO 65201
314-874-7800
Muscato, Mary S HEM
607 Randy Lane
Columbia, MO 65201
314-874-7800
Musick, William D CD
2006 Bridgewater
Columbia, MO 65202
314-882-4141
Nanson, James D IM
1701 East Broadway
Columbia, MO 65201
314-449-4999

Neese, Allen L PD
Department of Child Health
M245 Health Science Ctr
Columbia, MO 65212
314-882-3713
Nichols, W. Kirt GS
Dept of Surg.
N303 Health Science Ctr
Columbia, MO 65212
314-882-7136
Nierling, Dean A EM
Emergency Center
Univ Hospitals & Clinic
Columbia, MO 65212
314-882-8091
Nieuwenhuizen, Maarten P
3916 Faurot Dr
Columbia, MO 65203
314-449-2993
Nolph, Georgia J GP
908 Hickory Hill Dr.
Columbia, MO 65203
314-882-6191
O'Keefe, Stephen L IM
401 Keene
Columbia, MO 65201
314-876-1600
Olson, Steven A ORS
27 G. Broadway Village
Columbia, MO 65201
314-449-6657
Oro, John J NS
Department of Neurosurgery
N522 Health Science Ctr
Columbia, MO 65212
314-882-4908
Orth, O. Gerald NS
1701 E. Broadway Suite 3
Columbia, MO 65201
314-449-3407
Overholser, Milton D OS
110 E. Brandon Rd.
Columbia, MO 65203
314-443-8423
Parker, Brent M CD
Department of Medicine
Health Science Ctr.
Columbia, MO 65212
314-882-2284
Patterson, Donald C OBG
500 Keene St. Suite 206
Columbia, MO 65201
314-442-2221
Payne, David E D
711 Thilly
Columbia, MO 65203
314-874-3300
Payne, John W ORS
Route 5
Fulton, MO 65251
314-642-4234
Pearman, Carl C GYN
UMHC OB/GYN Dept. N615
One Hospital Drive
Columbia, MO 65212
314-882-7937
Perez-Mesa, Carlos M PTH
Department of Pathology
M646 Health Science Ctr
Columbia, MO 65212
314-882-1121
Perry, Michael C IM
Department of Medicine
MA406C Hlth Science Ctr
Columbia, MO 65212
314-882-4979
Pfefer, Leland U IM
1502 E Broadway
Columbia, MO 65201
314-449-1261
Phillips, Karen K IM
Univ of Mo Health Science Ct
One Hospital Dr.
Columbia, MO 65212
314-882-4141
Phillips, Stephen W DR
1502 E. Broadway
Columbia, MO 65201
314-443-4591
Pickard, Clarence M IM
203 W Broadway
Columbia, MO 65203
314-449-4101
Pickens, James M PD
Department of Neurology
M741 Health Science Ctr
Columbia, MO 65212
314-882-3133
Pingelton, William B OBG
113 W Broadway
Columbia, MO 65203
314-449-5766
Pittman, David L PTH
2703 Clark Lane
P. O. Box 7406
Columbia, MO 65205
314-449-2902
Politte, Lenard L CD
401 Keene St
Columbia, MO 65201
314-876-1630

---

* Doctor of osteopathy.

Pressly, Thomas A
Department of Medicine
Health Science Ctr
Columbia, MO 65212
314-882-4141
Prica, George Jr FP
Family Health Care
1506 E. Broadway
Columbia, MO 65201
314-449-0808
Puckett, Charles L PS
Department of Plastic Surg
M349 Health Science Ctr
Columbia, MO 65212
314-882-2275
Quinn, William G ORS
3205 Lansing Ave. P.O. Box O
Columbia, MO 65205
314-443-2402
Rall, Kenneth L R
311 A Ellis Blvd.
Jefferson City, MO 65101
314-634-4441
*Ray, Terry L AN
1506 E. Broadway
P.O. Box 7041
Columbia, MO 65205
314-449-1207
Reams, Garry P IM
N406 Health Sciences Ctr.
One Hospital Dr.
Columbia, MO 65212
314-882-4893
Reed, Mark O PMR
5R-01 Rusk Rehab
One Hospital Dr.
Columbia, MO 65212
314-882-3101
Renner, Gregory J OTO
Dept Of Oto.
MA314 Health Science Ct
Columbia, MO 65212
314-882-8173
Reynolds, Ralph D IM
Ellis Fischel Cancer Ctr
115 Business Loop 70 W
Columbia, MO 65203
314-875-2215
Ridenhour, Clarence E GS
Route 13 Cedar Grove
Columbia, MO 65201
314-874-3111
Rikli, Arthur E GPM
4003 Faurot Dr
Columbia, MO 65203
314-445-6480
Robinson, Justin A GS
3401 Berrywood Ste. 104
Columbia, MO 65201
314-443-8773
Rodgers, Dorothy L GYN
202 South Glenwood
Columbia, MO 65203
314-882-7485
Roeltgen, David P N
Dept Of Neurology
M741 Health Science Ctr
Columbia, MO 65212
314-882-3133
Roller, James A D
3401 Berrywood
Columbia, MO 65201
314-875-1527
Ross, Gilbert U
Division of Urology
N510 Health Science Ctr
Columbia, MO 65212
314-882-0494
Rundorff, Robert L PMR
5R-01 Rusk Rehab Center
One Hospital Drive
Columbia, MO 65212
314-882-3101
Russell, Garth S ORS
P.O. Box O
Columbia, MO 65205
314-443-2402
Sabeti, Mohebat P
One Hospital Drive
Columbia, MO 65212
314-882-2511
Sadhu, Vijay K R
1502 E. Broadway
Columbia, MO 65201
314-443-4591
Sala, Jose M R
115 Bus Loop 70 West
Columbia, MO 65203
314-875-2247
Sanders, Harold L DR
1502 E Broadway
Columbia, MO 65201
Schaffer, Jeffrey F DR
800 Hospital Drive
Columbia, MO 65212
314-443-2511
Schell, James A IM
3401 Berrywood Dr.
Columbia, MO 65201
314-442-3169
Schewe, Elmer J GS
1232 Sunset Dr.
Columbia, MO 65203
314-442-1272
Schoengarth, Lowell D OPH
Columbia Eye Consultants
500 Keene St.
Columbia, MO 65201
314-449-3846
Schrage, Jon P IM
P. O. Box 687
Jefferson City, MO 65102
314-751-2925
Shah, Jayendra H END
VA Hospital Med Svc
800 Hospital Dr.
Columbia, MO 65201
314-443-2511
Shah, Saroj J PM
Department of Physical Med
501 Rusk Rehabiliation
Columbia, MO 65212
314-882-3101
Shaheen, Eleanor PD
Department of Child Health
N708 Health Science Ctr
Columbia, MO 65212
314-882-4932
Shapero, James A P
1301 Fieldcrest
Columbia, MO 65203
314-876-1740
Shondelmeyer, Raymond W IM
3211 S. Providence
Columbia, MO 65203
314-449-3333
Shyken, Jaye M OBG
N617 Health Science Center
One Hospital Dr.
Columbia, MO 65212
314-882-7937
Silver, Donald GS
Department of General Surg
M580 Health Science Ctr
Columbia, MO 65212
314-882-8178
Singh, Amolak NM
2N-19 Health Sciences Ctr.
One Hospital Drive
Columbia, MO 65212
314-443-2511
Singsen, Bernhard H PD
Department of Child Health
M662 Health Science Ctr
Columbia, MO 65212
314-882-3996
Smith, J. Ned IM
Department Of Medicine
M463 Health Science Ctr
Columbia, MO 65212
314-443-2511
Smith, Patrick A ORS
3205 Lansing Ave.P.O.Box O
Columbia, MO 65205
314-443-2402
Soha, Joseph J DR
114 Arbor Drive
Columbia, MO 65201
314-449-3931
Sohn, Daniel G P
5R-01 Rusk Rehab Center
One Hospital Dr.
Columbia, MO 65212
Solomon, Nancy A P
MA202 Health Science Ctr
UM School of Medicine
Columbia, MO 65212
314-882-2923
Soltys, Stephen M P
Dept of Psychiatry
1 Hospital Drive
Columbia, MO 65212
314-882-8006
Sosebee, Lee A ORS
3205 Lansing Ave P.O.Box O
Columbia, MO 65205
314-443-2402
Sowash, James J OBG
Boone Clinic 401 Keene St.
Columbia, MO 65201
314-874-3300
Spurgeon, Milo J AN
404 Edgewood Ave.
Columbia, MO 65203
314-442-2980
Stephenson, Hugh E TS
Department of Surgery
N323 Health Science Ctr
Columbia, MO 65212
314-882-7155
Stewart, W. B. PTH
Department of Pathology
M646 Health Science Ctr
Columbia, MO 65212
314-882-1121
Stoy, Robt P GS
201 West Broadway
Columbia, MO 65203
314-449-3159
Stradford, H. Todd ORS
1444 S El Chaparral Ave
Columbia, MO 65201
314-443-4175
Struss, Andrea L P
3509 Monterey
Columbia, MO 65203
314-449-3131
Swaney, Charles M DR
1502 E. Broadway
Columbia, MO 65201
314-443-4591
Taylor, Henry M IM
Department of Pathology
M328 Health Science Ctr
Columbia, MO 65212
314-882-1121
Templer, Jerry W OTO
Division of Otolaryngology
MA314Health Science Ctr
Columbia, MO 65212
314-882-8173
Terry, Boyd E GS
Department of Surgery
N306 Health Science Ctr
Columbia, MO 65212
314-882-7156
Thomas, Horace E GS
503 Russell Blvd.
Columbia, MO 65203
314-445-5219
Thomas, Maria D P
108 E. Green Meadows #6
Columbia, MO 65203
314-443-2323
Thomas, Robert M OTO
3205 Lansing Ave
Columbia, MO 65201
314-449-0516
Tinsley, John C IM
104 S. Glenwood
Columbia, MO 65203
314-442-6450
Trammell, Lee W OBG
Women's Health Associates
201 West Broadway
Columbia, MO 65203
314-443-8796
Trombka, Lawrence H P
Psychiatry Clinic 6
1 Hospital Drive
Columbia, MO 65212
314-882-2511
Trumbower, Wm D OBG
2417 Beachview Drive
Columbia, MO 65203
314-443-0449
Tully, Richard J DR
Department of Radiology
N214 Health Science Ctr
Columbia, MO 65212
314-882-8183
Twardowski, Zbylut J NEP
MA436 Health Science Ctr
Department of Medicine
Columbia, MO 65212
314-882-7991
VanStone, John C IM
1805 E. Walnut
Columbia, MO 65201
314-443-1531
Vogel, Curt M GS
3401 Berrywood
Columbia, MO 65201
314-443-8773
Waggoner, Chas M R
712 Hilltop Dr.
Columbia, MO 65201
314-449-5179
Wakerlin, Geo E US
231 El Bonito Way
Millbrae, CA 94030
Walls, Joseph T CDS
Department of Thoracic Surg
MA312Health Science Ctr
Columbia, MO 65212
314-882-6954
Walters, Laura D
1027 Hickory Hill Dr.
Columbia, MO 65203
314-449-1266
Ward, Dana S
Health Science Ctr. Dermat.
1 Hospital Drive
Columbia, MO 65212
314-882-3141
Watson, Trevor F OBG
1504 E Broadway
Columbia, MO 65201
314-443-4511
Watts, Clark C NS
Department of Neurosurgery
N522 Health Science Ctr
Columbia, MO 65212
314-882-4908

---

* Doctor of osteopathy.

*Weaver, Bruce E AN
P. O. Box 7041
Columbia, MO 65205
314-449-1207
Weaver, Dana J U
Department of Urology
N510 Health Science Ctr
Columbia, MO 65212
314-882-1151
Weaver, Mark E AN
Anesthesiologists, Inc.
P. O. Box 975
Columbia, MO 65205
Webel, Richard R IM
Cardiology 1E65
One Hospital Drive
Columbia, MO 65212
314-882-2296
Weigel, James W GP
1305 Fieldcrest
Columbia, MO 65203
314-445-3383
Weinstein, Mary M PD
Department of Child Health
N721 Health Science Ctr
Columbia, MO 65212
314-882-4932
Weinstein, Stephen H U
Department of Urology
N510 Health Science Ctr
Columbia, MO 65212
314-882-1151
Weiss, James M P
Department of Psychiatry
C-6 Health Science Ctr
Columbia, MO 65212
314-882-3176
Wertheimer, Richard I N
Dept of Neurology
M741 Health Science Ctr
Columbia, MO 65212
314-882-3133
Weston, Kenneth G FP
Family Health Care
1506 East Broadway
Columbia, MO 65201
314-449-0808
White, David S FP
2007 Crestridge
Columbia, MO 65203
314-875-8191
White, Harry H N
203 W. Broadway
Columbia, MO 65203
314-449-8115
Wiggins, Roland L IM
408 N Garth Ave
Columbia, MO 65203
314-449-4958
Willcox, Roger A EM
Rt 4 Box 333
Columbia, MO 65201
314-875-3501
Williams, Fred OBG
201 W Broadway
Columbia, MO 65203
314-443-8796
Wilson, Geo P R
Suite 103
3401 Berrywood
Columbia, MO 65201
314-449-3931
Wilson-Krechel, Susan L AN
Dept of Anes #3N15
Health Sciences Ctr
Columbia, MO 65212
Windmiller, Eugene M GS
1502 E Broadway
Columbia, MO 65201
314-449-5684
Winkelmeyer, William K IM
1701 E Broadway
Columbia, MO 65201
314-876-1735
Winnacker, John L IM
Department of Medicine
A133 VA Hospital
Columbia, MO 65201
314-443-2511
Woodruff, Calvin W PD
910 Wayne Road
Columbia, MO 65203
314-449-7794
Yang, Henry K OPH
203 W. Broadway
Columbia, MO 65203
314-874-1616
Yarbro, John W IM
2604 Luan Court
Columbia, MO 65203
314-882-6163
Yates, Charles L AN
P. O. Box 975
Columbia, MO 65201
314-449-6280
Yesus, Yohannes W PTH
Department of Pathology
W646 Health Science Ctr
Columbia, MO 65212
314-882-1121
Zweig, Steven C FP
MA3034 Health Science Center
Dept Family & Com. Med.
Columbia, MO 65212
314-882-4991

030—BUCHANAN

Acuff, R P R
702 Jule St
St Joseph, MO 64501
816-233-8211
Ames, Wm H IM
5301 Faron
St Joseph, MO 64506
816-233-9711
Andres, Edward H GS
1314 N. 36
St Joseph, MO 64506
816-233-3337
*Baade, Norman F AN
#2 Lakeland
St. Joseph, MO 64506
816-232-2829
Ballard, Dewey P IM
5301 Faraon St.
St Joseph, MO 64506
816-233-9711
Bartulica, Nicholas P
3400 Frederick
St Joseph, MO 64502
816-232-8431
Beck, Paul M OPH
Kirkpatrick Building
St Joseph, MO 64501
816-233-2297
Beheler, Edward M GS
422 N 7th St
St Joseph, MO 64501
816-232-8444
Benson, Scott C FP
P O Box 1387
Mesa, AZ 85201
Berkowitz, Ellis R IM
3715 Beck Rd. Bldg F
St. Joseph, MO 64506
816-279-6376
*Bowers, James L FP
1301 Buchanan Ave.
St. Joseph, MO 64501
816-232-4242
Bradley, J. Douglas FP
1314 N. 36
St. Joseph, MO 64506
816-233-7377
Brennan, Richard J ORS
1335 Village Dr P.O.Box 8-67
St Joseph, MO 64508
816-233-0211
Bristow, Robert B U
2605 Frederick Avenue
St Joseph, MO 64506
816-279-6331
*Bronfman, Jana R EM
NW MO Emergency Physicians
904 Edmond
St. Joseph, MO 65401
816-233-7955
Brown, Merlin D FP
1314 N 36
St Joseph, MO 64506
816-233-7377
Brown, Scott S IM
902 Edmond St.
St. Joseph, MO 64502
816-232-8145
Burnett, Dak R IM
5301 Faraon St.
St. Joseph, MO 64506
816-233-9711
Butler, Elza F OM
3110 Douglas St.
St Joseph, MO 64506
816-233-1656
Carpenter, Geo T IM
5301 Faraon St.
St Joseph, MO 64506
816-233-9711
Christ, Martin H A
1402 Faraon St
St Joseph, MO 64501
816-279-1615
Christiansen, Sidney G OTO
5301 Faraon St.
St. Joseph, MO 64506
816-364-3277
Conant, James F GP
702 Jules Street
P.O. Box 262
St. Joseph, MO 64502
816-232-4222
Conroy, James A P
Woodson Psychiatric Hospital
P. O. Box 263
St. Joseph, MO 64502
816-232-8431
Corder, Robt L OBG
1322 N. 36
St Joseph, MO 64506
816-233-5139
Cox, John P P
301 N 8th St.
St Joseph, MO 64501
816-232-2224
Crabb, Jeremiah E IM
NW MO Emergency Physicians
904 Edmond
St. Joseph, MO 65401
816-233-7955
Craig, Richard O GS
2015 N. 36th
Beck Road Center
St Joseph, MO 64506
816-232-5113
Day, Romney M U
1410 Highland
McAllen, TX 78501
Decanini, Mario P
P O Box 11
St Joseph, MO 64502
816-232-8431
Dunlap, Michael D EM
904 Edmond
St Joseph, MO 64501
DuMont, Clement C FP
1905 Francis St
St Joseph, MO 64501
816-232-5776
Dyer, Gary A D
1325 Village Dr
St Joseph, MO 64506
816-364-1507
Escobar, Nelson G NS
P. O. Box 445
St Joseph, MO 64502
816-232-9221
Fernandez, Fernando PD
1341 Village Dr
St Joseph, MO 64506
816-364-5974
Fisher, Jos L R
702 Jules St.
St Joseph, MO 64501
816-233-8211
Fox, Gerald E PTH
2106 Lovers Lane
St Joseph, MO 64505
816-232-7330
Gaffney, Jon W PS
1502 N. 36th St.
St. Joseph, MO 64506
816-364-3113
Garrison, David L OBG
1502 N. 36th
St Joseph, MO 64506
816-232-0654
Goeking, C Keith OBG
1502 N. 36th Street
St. Joseph, MO 64506
816-232-0654
Gondring, William H ORS
1335 Village Dr
St Joseph, MO 64506
816-233-0211
Grewal, Narinder S AN
2400 Frederick Ave.
St. Joseph, MO 64506
816-232-3003
Grimes, Manning E FP
815 N. Noyes Blvd
St Joseph, MO 64506
816-232-5527
Gunter, Joe S U
1322 N 36th Street
St Joseph, MO 64506
816-232-6315
Harner, Casper G D
904 Edmond St
St Joseph, MO 64501
816-233-7702
Hayes, Paul W P
610 N Noyes Blvd
St Joseph, MO 64506
816-233-4950
Heins, Donald E R
617 Tanglewood
St. Joseph, MO 64506
816-271-7557
Herman, Allen I IM
1909 N 32nd Street
St Joseph, MO 64506
816-232-4056
Hughes, Judson M OM
3306 Jennifer Lane
St Joseph, MO 64506
816-279-3823
*Hull, Jeffrey F AN
Heartland East Hospital
Dept of Anes.
St. Joseph, MO 65401
816-271-6404

---

* Doctor of osteopathy

Ide, Lucien W IM
1416 N. 25th
St Joseph, MO 64506
816-279-9990

Inocencio, Eddie C OTO
1419 Village Dr.
St Joseph, MO 64506
816-232-0053

*Jacks, Richard K P
P. O. Box 263
St. Joseph, MO 64502
816-232-8431

Kiekhaefer, Theodore C FP
1301 S. Belt
St. Joseph, MO 64507
816-232-2525

Kline, Carlyn M FP
17 Stonecrest
St Joseph, MO 64506
816-279-3506

Kline, Edmund W OBG
1322 N 36
St Joseph, MO 64506
816-233-5139

Knepper, Paul A III GS
902 Edmond
St Joseph, MO 64501
816-364-2588

LacKamp, Robert J R
702 Jule St.
St. Joseph, MO 64501
816-233-8211

Lee, Carleton H A
4104 St. Joseph Ave.
St Joseph, MO 64505
816-232-5493

Lehman, Philip C ORS
3006 Miller Rd.
St Joseph, MO 64506
816-232-9740

Lockard, Orlyn O IM
1321 Village Dr.
St. Joseph, MO 64506
816-233-8724

Maginn, Richard L FP
702 Jule St
St Joseph, MO 64501
816-279-6395

Marston, F. James OBG
1502 North 36th St.
St Joseph, MO 64506
816-232-0654

Martin, John N U
#9 Lindenwood
St Joseph, MO 64505
816-233-3215

McDaniel, John R GS
1808 N 29th St.
St Joseph, MO 64507
816-279-7206

McDonald, Wallace IM
29 Ridgeland Road
St Joseph, MO 64505
816-233-9027

McDonald, Wilbur P GS
6 Country Club Road
St Joseph, MO 64505
816-232-1719

McMillen, James J IM
900 N Belt Highway
St Joseph, MO 64506
816-233-9053

Miller, William D FP
1314 N. 36th
St. Joseph, MO 64506
816-233-7377

Mitzelfelt, Donald E EM
P. O. Box 152
Savannah, MO 64485
816-279-7955

Moeller, Randall J U
1322 N 36th Street
St. Joseph, MO 64506
816-232-6315

Moranville, Benedict A EM
4814 Stonecrest Terrace
St. Joseph, MO 64506
816-271-7111

Morse, John P ORS
514 Francis
St. Joseph, MO 64501
816-232-9740

Mothershead, John L FP
2603 Frederick Ave
St Joseph, MO 64506
816-233-1212

Moya, Carlos E PTH
Heartland Hospital West
Seventh Street
St. Joseph, MO 64501
816-271-7901

Muench, Albert H PH
412 N 25th
St Joseph, MO 64501
816-232-3408

Mullican, Chas N IM
3715 Beck Rd. Bldg F.
St Joseph, MO 64506
816-279-6376

Murphy, James A OPH
3201 Ashland Ave.
St Joseph, MO 64506
816-279-3937

Ness, Carl K AN
8 Lindenwood Lane
St Joseph, MO 64505
816-232-8769

Nguyen, Helen T A
P. O. Box 8294
St. Joseph, MO 64508
816-279-1113

O'Connor, William B D
2316 N. 22nd Street
St Joseph, MO 64505
816-279-1512

Partamian, Krikor O U
1322 N 36th
St Joseph, MO 64506
816-232-6315

Patel, Bipin T AN
2400 Frederick
Suite 111a
St. Joseph, MO 64506
816-232-3003

Patel, Prakesh B IM
602 Jules Street
St. Joseph, MO 64501
816-232-0185

Patel, Raman J EM
Heartland West
St. Joseph, MO 64501
816-233-7955

Paulson, Gordon S IM
1305 Village Dr.
St Joseph, MO 64506
816-233-1361

Piela, Robert C EM
NW MO Emergency Physicians
904 Edmond
St. Joseph, MO 65401
816-233-7955

Pifer, Lawrence H FP
925 Fifth Ave
St Joseph, MO 64505
816-232-1333

Potter, Caryl A Jr IM
3715 Beck Rd. Bldg F
St Joseph, MO 64506
816-279-6376

Prokop, Jos R PD
29 Stonecrest
St Joseph, MO 64506
816-232-4100

Rangineni, Rajagopal IM
1411 Village Dr.
St. Joseph, MO 64506
816-232-0645

Raphel, Jose P
1111 N 49th Terr
St Joseph, MO 64506
816-232-8431

Redmond, William S FP
620 Francis St
315 Kirkpatrick Bldg
St Joseph, MO 64501
816-232-5420

Rippe, William F IM
5301 Faraon St.
St. Joseph, MO 64506
816-233-9711

Roberts, Phyllis G PD
1429 Village Drive
St Joseph, MO 64506
816-233-5491

Rogers, John T GS
2502 Ashland Ave
St Joseph, MO 64506
816-279-2208

Rosenthal, Irwin I FP
5007 Stonecrest Terrace
St Joseph, MO 64506
816-279-4443

Sandberg, Chris B FP
1314 North 36th St.
St. Joseph, MO 64506
816-233-7377

Schaaf, Robert O
120 South Riverside
St. Joseph, MO 64507
816-424-6471

Sealby, Robert L FP
904 Edmond St.
St. Joseph, MO 64501
816-233-7702

Shah, Narendra AN
2400 Frederick Suite 111
St Joseph, MO 64506
816-232-3003

Shah, Sheila PTH
Heartland Hospital West
St. Joseph, MO 64501
816-271-7901

Shevlin, Chas F PD
1635C La Reina Way
Palm Springs, CA 92262

Silliman, York E PTH
2715 Francis
St Joseph, MO 64501
816-271-6100

Sklenar, Donald E FP
228 Illinois
St. Joseph, MO 64504
816-238-4016

*Smith, Cyrus D ORS
514 Francis
St. Joseph, MO 64501
816-232-9740

Sourk, Robert L IM
900 N Belt
St. Joseph, MO 64506
816-233-9053

Spurgat, Robert M IM
3715 Beck Rd. Bldg F
St. Joseph, MO 64506
816-279-6376

Stallard, Donald J IM
5301 Faraon
St Joseph, MO 64506
816-233-9711

Stevens, Edward M DR
Heartland Hospital West
St Joseph, MO 64501
816-271-7557

Stuber, Robert R IM
900 N Belt Hwy
St Joseph, MO 64506
816-233-9053

Thompson, F Gregg PD
2714 Ashland Ave
St Joseph, MO 64506
816-364-5974

Tobin, Robert F OPH
1407 Village Dr.
St Joseph, MO 64506
816-279-1363

Valera, Salvador S P
St. Joseph State Hospital
3400 Frederick
St. Joseph, MO 64506
816-232-8431

Wadlow, Ernest E OBG
1401 N. 43rd St.
St. Joseph, MO 64506
816-279-0471

Waggoner, Sharon E FP
301 Illinois
St Joseph, MO 64504
816-238-4544

Weinand, Ernest E GS
1314 N. 36th St.
St Joseph, MO 64506
816-233-3337

Whitsell, O. Earl OPH
2306 Sacramento
St Joseph, MO 64507
816-279-2363

*Williams, Robert J P
P. O. Box 8006
St. Joseph, MO 64508
816-232-8431

Willman, Charles R GS
2216 Highly
St Joseph, MO 64506
816-232-4447

Willumsen, Henry C OBG
627 North 25th St. Apt. 208
St Joseph, MO 64506
816-232-7172

Windsor, David G P
RR 1
Rosendale, MO 64483
816-232-5246

Wolanski, Eugene G IM
5301 Faraon
St Joseph, MO 64506
816-233-9711

Young, Thomas J OPH
3201 Ashland Ave
St Joseph, MO 64506
816-279-3937

034—BUTLER-WAYNE-RIPLEY-CARTER

Andrus, Don L GS
VA Hospital
Poplar Bluff, MO 63901
314-686-4151

Barbour, Marvin R FP
Kneibert Clinic
Poplar Bluff, MO 63901
314-686-2411

Baskurt, Mehmet V R
VA Hospital Dept of Rad
Poplar Bluff, MO 63901
314-686-4151

---

* Doctor of osteopathy.

Bauman, Mark A IM
686 Lester
Poplar Bluff, MO 63901
314-686-2411
Benoist, Louis A ORS
2509 Lucy Lee Parkway
Poplar Bluff, MO 63901
314-785-0133
Bhothinard, Bhisit N
P. O. Box 4027
Poplar Bluff, MO 63901
314-686-1135
Biggs, Fred J GP
5612 Bobby Jones Rt 4
Harlingen, TX 78550
314-785-4515
Brookreson, Alton D FP
1901 Sunset Drive
Poplar Bluff, MO 63901
314-686-4133
Caldwell, Fred FP
1901 Sunset Orive
Poplar Bluff, MO 63901
314-785-0828
Camp, Richard V FP
P.O. Box 158
Poplar Bluff, MO 63901
Carlson, Elmer C OBG
623 Pine St
Poplar Bluff, MO 63901
314-686-2411
Chand, Nazar PO
666 Lester
Poplar Bluff, MO 63901
314-686-2411
Christy, John P GS
666 Lester St
Poplar Bluff, MO 63901
314-686-2411
Chung, T. Oavid GS
2201 13 N Westwood Blvd.
Poplar Bluff, MO 63901
314-686-6061
Costin, Jimmy L PTH
P.O. Box 4175
Poplar Bluff, MO 63901
314-686-2488
Oever, Robert L OR
P.O.Box 3932
Poplar Bluff, MO 63901
314-785-0125
Engelhardt, Robt C AN
Kneibert Clinic
Poplar Bluff, MO 63901
314-686-2411
Fraser, Richard A IM
Kneibert Clinic Bldg
686 Lester St.
Poplar Bluff, MO 63901
314-686-2411
*Gayle, David R GP
415 S. Main
Piedmont, MO 63957
314-223-4233
*Gayle, Richard E GP
415 S. Main
Piedmont, MO 63957
314-223-4233
George, Robert W GP
240 Richardson Ave.
Puxico, MO 63960
314-222-3575
Gernstetter, S L ORS
P O Box 337
Poplar Bluff, MO 63901
314-785-2243
Gieselmann, James W GS
1901 Sunset
Poplar Bluff, MO 63901
314-686-2446
Gujarati, Subhash B R
Lucy Lee Hospital
Poplar Bluff, MO 63901
314-785-6380
Hansbrough, Eugene T GS
1502 Lurlyn
Poplar Bluff, MO 63901
314-686-2411
Hecker, Jos E FP
Kneibert Clinic
Poplar Bluff, MO 63901
314-686-2411
Hestorff, Robert O ONC
Kneibert Clinic
686 Lester
Poplar Bluff, MO 63901
314-686-2411
Hoja, W Alex OBG
1901 Sunset
Northwest Medical Ctr
Poplar Bluff, MO 63901
314-785-7731
Hunt, John L GP
3600 Wilcox Rd.
Poplar Bluff, MO 63901
314-222-3556

Kim, Chul IM
1919 Big Bend Road
P.O. Box 3908
Poplar Bluff, MO 63901
314-686-7223
Kwoun, Soung GS
217 Oak Street
Poplar Bluff, MO 63901
314-686-6061
Laatsch, Robt H FP
1333 Meadow Ln
Poplar Bluff, MO 63901
314-686-6041
Laseter, Michael IM
Kneibert Clinic
Poplar Bluff, MO 63901
314-686-2411
Leroux, Gene H FP
204 Summit
Doniphan, MO 63935
314-996-2136
Lestmann, Henry E FP
312 Quinn
Perryville, MO 63775
314-547-7110
Loughead, John R OTO
1201 Lurlyn Ave
Poplar Bluff, MO 63901
Macauley, Bernard J OPH
P O Box 425
Ooniphan, MO 63935
Madduri, Aruna O OBG
666 Lester
Poplar Bluff, MO 63901
314-686-2411
Madduri, Sivaprasad D U
666 Lester
Poplar Bluff, MO 63901
314-686-2411
May, Albert L GS
445 N 11th St.
Poplar Bluff, MO 63901
314-686-6041
McFadden, Oavid M GS
686 Lester St.
Poplar Bluff, MO 63901
314-686-2411
McLane, Jerry F OBG
Oakhaven Women's Clinic
1111 Mansion Mall Dr
Poplar Bluff, MO 63901
314-785-7731
Moranz, John W ENT
Jct.O,Hwy 60
Van Buren, MO 63965
314-323-4211
Morehouse, Paul O GS
1803 Big Bend
Poplar Bluff, MO 63901
314-686-6041
Nagy, Al L P
Rt. 1 Box 108
Poplar Bluff, MO 63901
314-785-7941
Parker, Arthur C PO
5232 Beach Or. E. Gulf Pines
Destin, FL 32541
314-686-2411
Patty, Carl F OBG
1901 Sunset
Poplar Bluff, MO 63901
314-686-4133
Phanijphand, Suwan OTO
2011 Northwestwood
Poplar Bluff, MO 63901
314-785-7791
Preuschoff, Claudia K PO
1901 Sunset Drive
Poplar Bluff, MO 63901
314-686-4133
Ramirez, Ricardo M PTH
Kneibert Clinic
Poplar Bluff, MO 63901
314-686-2411
Reddy, Abbiah N U
666 Lester St
Poplar Bluff, MO 63901
314-686-2411
Robertson, Wm D GP
McPheeters Clinic
107 Oak St.
Poplar Bluff, MO 63901
314-686-6041
Ruff, T E U
1411 Rosedale
Poplar Bluff, MO 63901
314-785-4916
Samuel, George P IM
#1 Hospital Or.
Ooniphan, MO 63935
314-996-7148
Seralathan, Ramasamy GS
VA Hospital
Poplar Bluff, MO 63901
314-686-4151
Suvan, R PO
2501 Lucy Lee Parkway
Poplar Bluff, MO 63901
314-686-6041

Till, Bennie N FP
666 Lester St
Poplar Bluff, MO 63901
314-686-2411
*Toney, Michael P GP
124 S. Main
Piedmont, MO 63957
314-223-4800
Traxel, Wm L OPH
623 Pine Blvd
Poplar Bluff, MO 63901
314-686-2411
Tuma, Arthur T R
1601 Big Bend
Poplar Bluff, MO 63901
314-785-7701
Turner, Kirby L FP
686 Lester St.
Poplar Bluff, MO 63901
314-686-2411
Varma, Devendra K IM
1381 Susan Or.
Poplar Bluff, MO 63901
314-785-7708
White, Barry B FP
Puxico Clinic MD Inc
Puxico, MO 63960
314-222-3556
Wood, Thos O FP
Kneibert CLinic
666 Lester
Poplar Bluff, MO 63901
314-686-2411

038—CALLAWAY

Benitez, Jose A OBG
20 South Hospital Orive
Fulton, MO 65251
314-642-1725
Breshears, Edwin O FP
820 Jefferson
Fulton, MO 65251
314-642-6691
Brown, Katherine S AN
1304 Vine St
Fulton, MO 65251
Cooper, Thomas J FP
820 Jefferson
Fulton, MO 65251
314-642-6691
Cravens, William P FP
820 Jefferson
Fulton, MO 65251
314-642-6691
Oharmay, Roland S P
Fulton State Hospital
Fulton, MO 65251
Gish, E R GP
5 E 5th St
Fulton, MO 65251
314-642-5350
Groce, Geo O FP
820 Jefferson St
Fulton, MO 65251
314-642-6691
Ivins, Gregory K GS
26 South Hospital Orive
Fulton, MO 65251
314-642-0115
Jackson, Vernon B OPH
#3 Staff Circle
Fulton, MO 65251
314-642-3311
Lee, Soo Ja PTH
Fulton State Hospital
Fulton, MO 65201
314-642-3311
Nichols, David A IM
22 South Hospital Orive
Fulton, MO 65251
314-642-1295
Osbourn, Richard A FP
504 Jefferson
Fulton, MO 65251
314-642-6621
Parulekar, Oilip G GS
506 Jefferson St.
Fulton, MO 65251
314-642-8505
Peterson, Oonald B P
1 Country Club Or
Fulton, MO 65251
Singh, Surgit P
Fulton State Hospital
Fulton, MO 65251
314-642-3311
Spencer, Oonald C FP
P. O. Box 208
Fulton, MO 65251
314-642-5911
Wilkinson, William E P
Fulton State Hospital
Fulton, MO 65251
314-642-0278

---

* Ooctor of osteopathy.

Zacharias, Kulangara P GS
E. 5th Street
Fulton, MO 65251
314-642-3311
Zacharias, Sara PTH
East 5th Street
Fulton, MO 65251
314-445-9666

042—CAPE GIRARDEAU

Adams, Riley R AN
P.O. Box 751
113 S. Broadview
Cape Girardeau, MO 63701
314-335-0185
*Asher, Kennett FP
545 Broadridge Rd.
Jackson, MO 63755
314-243-8408
Ashley, Hugh V GP
425 Franklin St
Cape Girardeau, MO 63701
314-335-5609
Bahn, Chas F GE
2932 Bella Vista Drive
Cape Girardeau, MO 63701
314-334-8870
Bassett, Gary L P
P. O. Box 779
35 Doctors Park
Cape Girardeau, MO 63701
314-334-2570
Blankenship, Dale M FP
12 Doctors Park
Cape Girardeau, MO 63701
314-335-7030
Bowman, W. Kirk CD
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641
Braxton, Frank W NEP
14 Doctor's Park
Cape Girardeau, MO 63701
314-334-9641
Brewer, Nelson S IM
60 Doctors Park
Cape Girardeau, MO 63701
314-651-4443
Brown, Henry (Hal) S D
21 Doctors Park
Cape Girardeau, MO 63701
314-334-8500
Brown, Mike J DR
4 DuMaine
Cape Girardeau, MO 63701
314-335-6671
Burcham, Tom R FP
P. O. Box 868
Farmington, MO 63640
314-335-1251
Burford, Edwin K FP
2424 Terry Hill
Cape Girardeau, MO 63701
314-335-1251
Campbell, Edward D CRS
1100 N. Henderson
Cape Girardeau, MO 63701
314-335-8725
Chapman, James B CD
25 Doctors Park
Cape Girardeau, MO 63701
314-334-6008
Chapman, Jean A A
35 Doctors Park
Cape Girardeau, MO 63701
314-335-1218
Clark, David J GS
Surgical Clinic
10 Doctors Park
Cape Girardeau, MO 63701
314-334-3074
Coulson, Forest H IM
Route 1, Box 154
Whitewater, MO 63785
314-243-8677
Cozean, Charles H OPH
56 Doctors Park
Cape Girardeau, MO 63701
314-334-4401
Crowe, John T FP
1000 N. Henderson
Cape Girardeau, MO 63701
314-335-9329
Cundiff, H. Clay OPH
64 Doctors Park
Cape Girardeau, MO 63701
314-334-5265
Cupples, Tommy E DR
c/o Shoss Radiology Group
P.O. Box 1330
Cape Girardeau, MO 63701
314-335-6671
DeFelice, Charles E IM
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641
Dinkins, James A PD
23 Doctors Park
Cape Girardeau, MO 63701
314-334-7796
Downey, Jon P FP
60 Doctors Park
Cape Girardeau, MO 63701
314-334-1123
Dzur, James R IM
53 Doctors Park
Cape Girardeau, MO 63701
314-334-2495
Eller, Gordon W ORS
48 Doctors Park
Cape Girardeau, MO 63701
314-335-8257
Essmyer, Joseph K AN
P. O. Box 877
Cape Girardeau, MO 63701
314-335-3070
Felker, J. Russell U
3 Doctors Park
Cape Girardeau, MO 63701
314-334-7748
Freeman, Michael R IM
P. O. Box 1867
Cape Girardeau, MO 63701
314-334-8870
Gardner, Robert E N
3004 Gordonville Road
Cape Girardeau, MO 63701
314-651-3188
Gholson, Charles F GE
P. O. Box 1867
Cape Girardeau, MO 63701
314-334-8870
Glenn, Theodore J P
53 Doctors Park
Cape Girardeau, MO 63701
314-335-7899
Griffith, S Kent FP
63 Doctors Park
Cape Girardeau, MO 63701
314-334-4766
*Hall, John P U
3 Doctors Park
Cape Girardeau, MO 63701
314-334-7748
Hartmann, Thomas G FP
1701 Lacey
Cape Girardeau, MO 63701
Haycraft, Gordon L CD
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641
*Hoffman, James E PD
23 Doctors Park
Cape Girardeau, MO 63701
314-334-7796
Holcomb, John K FP
60 Doctors Park
Cape Girardeau, MO 63701
314-334-1123
Honaas, Trygve O GE
#68 Doctors' Park
Cape Girardeau, MO 63701
314-334-2801
Horn, Paul C PTH
36 1 Doctors Park
Cape Girardeau, MO 63701
314-334-2886
Hosler, Mark W PTH
SEMO Hospital
Cape Girardeau, MO 63701
314-651-5539
Hunt, Robert S GS
10 Doctors Park
Cape Girardeau, MO 63701
314-334-3074
Icaza, Ramiro FP
2130 Highway 61E
Jackson, MO 63755
314-243-3115
Jaeger, Jos N GP
938 Shady Lane
Jackson, MO 63755
314-243-2343
Johnson, E D III R
P. O. Box 1330
Cape Girardeau, MO 63701
314-335-6671
Johnson, Earl W R
P. O. Box 1330
1044 N. Henderson
Cape Girardeau, MO 63701
314-334-2027
Jung, Christopher H OTO
1 Doctors Park
Cape Girardeau, MO 63701
314-334-7173
Jung, J. Marshall OPH
64 Doctors Park
Cape Girardeau, MO 63701
314-334-5265
Kamath, K.P.S. P
35 Doctors Park
Cape Girardeau, MO 63701
314-334-4002
Kasten, Mark C FP
63 Doctors Park
Cape Girardeau, MO 63701
314-334-4766
Kasten, Melvin C GS
10 Doctors Park
Cape Girardeau, MO 63701
314-334-3074
*Kasukonis, John E GP
P. O. Box 236
RR 1
Lutesville, MO 63762
314-335-1251
Khan, Khalid I PUD
937 Broadway
Cape Girardeau, MO 63701
314-335-5359
Kies, Richard L OPH
1819 Broadway St.
Cape Girardeau, MO 63701
314-335-9175
Kim, Yong Kie NS
3004 Gordonville Rd.
Cape Girardeau, MO 63701
314-651-3188
Kinder, James A PD
937 Broadway
Cape Girardeau, MO 63701
314-334-3300
Kinder, Jerry L GS
10 Doctors Park
Cape Girardeau, MO 63701
314-334-3074
Kouo, Louis IM
68 Doctors Park
Cape Girardeau, MO 63701
314-334-0341
Kratz, Paul E GYN
2560 Independence
Cape Girardeau, MO 63701
314-334-5700
Lee, David Y S N
3004 Gordonville Rd.
Cape Girardeau, MO 63701
314-651-3188
Lovinggood, Thos A PTH
2505 Allendale
Cape Girardeau, MO 63701
314-651-5539
Lyskowski, Maria M P
3004 Gordonville
Cape Girardeau, MO 63701
314-651-3188
Mangunta, Vijaya K P
215 West Main St.
Jackson, MO 63755
314-243-8157
Marietta, William G CD
1936 Broadway Suite B
Cape Girardeau, MO 63701
314-334-9127
Martin, Richard A OTO
17 Doctors Park
Cape Girardeau, MO 63701
314-335-4448
Mauldin, Olin B JR PD
1435 Mt Auburn Rd.
Cape Girardeau, MO 63701
314-335-8006
McDonald, Eugene F GP
930 Jackson Trail
Jackson, MO 63755
314-243-2322
McGinty, Chas P GS
35 Doctors' Park
Cape Girardeau, MO 63701
314-335-2663
McIntosh, Douglas A Jr EM
Rt.3 Box 241A
Jackson, MO 63755
314-334-4822
*Mellies, Steven D N
3004 Gordonville Road
Cape Girardeau, MO 63701
314-651-3188
Moore, Richard E AN
P. O. Box 751
Cape Girardeau, MO 63701
314-335-0185
Morgan, Dix R TR
Radiation/Onconogy SEMO Hosp
1701 Lacey
Cape Girardeau, MO 63701
314-651-5544
Oehler, William F GP
213 N Sprigg St
Cape Girardeau, MO 63701
314-335-8338
Otto, Thomas G ORS
48 Doctors Park
Cape Girardeau, MO 63701
314-335-8257
Palen, James E FP
15 Doctors Park
Cape Girardeau, MO 63701
314-335-0166

---

* Doctor of osteopathy.

Parsons, D L FP
60 Doctors Park
Cape Girardeau, MO 63701
314-334-1123

*Pewitt, Charles S GP
545 Broadridge Rd.
Jackson, MO 63755
314-243-8408

Porter, Lynn W AN
P. O. Box 877
Cape Girardeau, MO 63701
314-335-3070

Pringle, Scot G OBG
55 Doctors Park
Cape Girardeau, MO 63701
314-334-5249

Ramsey, J. Darryl TS
1834 Broadway
Cape Girardeau, MO 63701
314-334-5070

*Ramsey, Jesse R PD
1435 Mount Auburn Rd.
Cape Girardeau, MO 63701
314-335-8006

Rawlins, Fred E OBG
1912 Broadway
Cape Girardeau, MO 63701
314-334-5056

Reddy, R. Ramachandra PS
215 West Main
Jackson, MO 63755
314-243-8157

Reimer, Donald R AN
Rt 4, Box 64
Jackson, MO 63755
314-243-4025

Ridings, G R TR
937 Broadway
Cape Girardeau, MO 63701
314-334-1669

Ridings, Harold D IM
937 Broadway
Cape Girardeau, MO 63701
314-335-7868

Ringer, C. Nelson OPH
#64 Doctors Park
Cape Girardeau, MO 63701
314-334-5265

Ritter, C J IM
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641

Ritter, Carl F R
P. O. Box 1330
Cape Girardeau, MO 63701
314-335-6671

Ritter, Ray A Jr ORS
48 Doctors Park
Cape Girardeau, MO 63701
314-335-8257

Ritter, Raymond A Sr. ORS
727 Bellevue #3D
Cape Girardeau, MO 63701
314-335-5825

Roberts, Perry T OTO
P.O. Box 1429
8 Doctors Park
Cape Girardeau, MO 63701
314-334-7718

Robinson, Ronald L IM
61 Doctors Park
Cape Girardeau, MO 63701
314-335-0174

Rohatgi, Reeta P
24 S. Mt. Auburn Rd.
Cape Girardeau, MO 63701
314-334-1100

Ruess, Robert W TS
1834 Broadway
Cape Girardeau, MO 63701
314-334-5070

*Russell, Robert B AN
Southeast Missouri Hospital
113 S. Broadview
Cape Girardeau, MO 63701
314-335-0185

*Sacha, Robert F A
8 Doctors Park
Cape Girardeau, MO 63701
314-335-1969

Schoenberger, John R IM
937 Broadway
Medical Arts Bldg.
Cape Girardeau, MO 63701
314-335-0412

*Schroeder, Walter A Jr. OTO
17 Doctor's Park
Cape Girardeau, MO 63701
314-335-4448

Seabaugh, Wm O GS
P.O. Box 1144
24 N. Sprigg
Cape Girardeau, MO 63701
314-334-4471

Shakil, Mohammad N
66 Doctors Park
Cape Girardeau, MO 63701
314-334-7175

Shoss, Milton R
1 Oyster Catcher
Hilton Head Isl, SC 29928

Sides, Stanley D IM
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641

Smaga, Sharon A FP
63 Doctors Park
Cape Girardeau, MO 63701
314-334-4766

Smithson, Debra S FP
63 Doctors Park
Cape Girardeau, MO 63701
314-334-4766

Sparkman, Thomas C FP
15 Doctors Park
Cape Girardeau, MO 63701
314-334-6053

Spence, Paul A FP
60 Doctors Park
Cape Girardeau, MO 63701
314-334-1123

Spitler, Allen L CD
25 Doctors Park
Cape Girardeau, MO 63701
314-334-6008

*Stahly, Randall L N
610 Highland
Cape Girardeau, MO 63701

Stahr, William D PTH
36-1 Doctors Park
Cape Girardeau, MO 63701
314-334-2886

Stoecker, Willeford J DR
P.O. Box 1330
Cape Girardeau, MO 63701
314-335-6671

Swinfard, Ronald W D
21 Doctors' Park
Cape Girardeau, MO 63701
314-334-6088

Talbert, Clifford R CD
25 Doctors Park
Cape Girardeau, MO 63701
314-334-6008

Taylor, Philip W RHU
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641

Terry, James W U
3 Doctors Park
Cape Girardeau, MO 63701
314-334-7748

*Tewis, Huey D AN
113 S. Broadview
Cape Girardeau, MO 63701
314-335-0185

Thorpe, William P ORS
48 Doctors Park
Cape Girardeau, MO 63701
314-335-8257

Trantham, David M EM
St. Francis Med. Ctr.
Cape Girardeau, MO 63701
314-335-1251

Trueblood, Michael C ORS
48 Doctors Park
Cape Girardeau, MO 63701
314-335-8257

Vargas, Jaime P
66 Doctors' Park
Cape Girardeau, MO 63701
314-334-7175

Velander, Robert D EM
1803 Northbridge Drive
Cape Girardeau, MO 63701
314-334-4822

Weeks, Geo R AN
1814 Scott's Lane POB 812
Cape Girardeau, MO 63702
314-335-3070

Westcott, Bruce R AN
P. O. Box 877
Cape Girardeau, MO 63701
314-335-3070

Whitten, J S OBG
55 Doctors Park
Cape Girardeau, MO 63701
314-334-5249

Whittenberger, Brock P HEM
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641

Williams, Craig W R
Shoss Radiology Group
POBox 1330 937 Broadway
Cape Girardeau, MO 63701
314-335-6671

Wilson, Chas F IM
1530 Oak Lei Dr.
Cape Girardeau, MO 63701
314-335-8477

Wulfers, Michael C FP
Medical Arts Building
937 Broadway
Cape Girardeau, MO 63701
314-334-4424

Yates, Karen OTO
1 Doctors Park
Cape Girardeau, MO 63701
314-335-5120

Zoffuto, Anthony C IM
14 Doctors Park
Cape Girardeau, MO 63701
314-334-9641

046—CHARITON-MACON-MONROE-RANDOLPH

Aguilera, Trinidad J GS
1513 Union
Moberly, MO 65270
816-263-7654

Ahad, Khandaker A OPH
643 N. Morley St.
Moberly, MO 65270
816-263-5363

Bade, Bruce IM
1513 Union Ave.
Suite 1600
Moberly, MO 65270
816-263-4040

Baker, Josephine D AN
614 Fisk St
Moberly, MO 65270
816-263-5267

Barnett, Floyd A GP
111 E Monroe St
Paris, MO 65275
816-327-4214

Bautista, Rogelio L GS
324 Circle Dr
Moberly, MO 65270
816-263-2650

Campbell, James E GP
1101 Jackson St
Macon, MO 63552
816-385-3141

Cohrs, Clarence C A
423 E Logan
Moberly, MO 65270
816-263-1747

Collins, Gretchen D FP
605 N Rutherford St
Macon, MO 63552
816-385-3141

Dalgleish, Frederick A OBG
1513 Union Ave.
Moberly Prof Arts Bldg.
Moberly, MO 65270
816-263-3600

Dasovich, Judith A IM
1613 Union Ave.
Moberly, MO 65270
314-882-8091

Dreyer, Philip V GP
208 Short St
Huntsville, MO 65259
816-277-4202

Duff, John A IM
1513 Union Ave.
Moberly, MO 65270
314-882-8090

Eggleston, Donald E GP
410 N Rutherford
Macon, MO 63552
816-385-2523

Fleming, David A IM
1513 Union St.
Moberly, MO 65270
816-263-4040

Fleming, J. Will Jr IM
1513 Union Ave.
Moberly, MO 65270
816-263-4040

Huber, Lasley E GP
223 N Williams
Moberly, MO 65270

Kays, Kenneth M R
1729 Lakewood Dr.
Moberly, MO 65270
314-443-4591

Kleopfer, Lynn L PTH
Moberly Regional Med Ctr
P. O. Box 3000
Moberly, MO 65270
816-263-8400

Lamonda, Gary W IM
Route #1
Harrisburg, MO 65256
816-263-4040

Lee, Sook La AN
P.O. Box 534
Macon, MO 63552
816-385-5778

Lin, C H OBG
1513 Union
Moberly, MO 65270
816-263-7087

---

* Doctor of osteopathy.

Lin, H T IM
1313 Union Ave. Suite 1200
Moberly Prof. Arts Bldg
Moberly, MO 65270
816-263-1340
Mengel, Charles E IM
1513 Union Ave.
Moberly, MO 65270
816-263-4040
Miller, D H P
8555 S Lewis
Apt 201
Tulsa, OK 74137
Shin, Dong Soo GS
P.O. Box 534
Macon, MO 63552
816-385-5778
Stuart, Danl D GP
313 N. Small Rt 1 Box 93
Brunswick, MO 65236
816-548-3566
Tompson, Robt V GS
712 Gilman Rd.
Moberly, MO 65270
816-263-6310
Turnbaugh, Thomas R ORS
1513 Union Ave.
Moberly, MO 65270
816-263-6494
Vetne, Erik S PD
1513 Union
Moberly, MO 65270
816-263-5300

050—CLAY-PLATTE

Adams, Howard D GP
144 Westwoods Dr.
Liberty, MO 64068
816-781-4878
Albani, Frank J U
34 Westwoods Dr.
Liberty, MO 64068
816-781-8400
Allain, James J OPH
2700 Hospital Drive
Suite 400
N Kansas City, MO 64116
816-221-5717
Allan, James R GP
1000 North Jesse James
Ste. 3
Excelsior Spgs, MO 64024
816-637-3123
Allen, Louis A PTH
2800 Hospital Dr
Kansas City, MO 64116
816-474-5656
Andrews, Berneil W U
2 N.W. 43rd St.
Kansas City, MO 64116
816-452-2175
Armstrong, Jay H R
4812 Black Swan Dr
Shawnee Mission, KS 66216
913-631-2867
Balhuizen, John PUD
2920 N.E. 60th St.
Kansas City, MO 64119
816-452-7557
Bates, G. Comer CD
102 E 43rd Street N
Kansas City, MO 64116
Benson, Larry E IM
2700 Hospital Dr Ste 24
No. Kansas City, MO 64116
816-741-6611
Boone, Danl C OM
5800 N Grand Ave
Kansas City, MO 64118
816-453-4069
Bowles, Richard P FP
140 Westwood Dr.
Liberty, MO 64068
816-781-4740
Bowser, Robert L AN
17421 Medical Center Parkway
Independence, MO 64057
Breckenridge, Robert L PTH
Suite 100 2700 Hospital Dr.
Kansas City, MO 64116
816-474-5656
Brill, Joachim R PD
30 Westwoods Drive
Liberty, MO 64068
816-781-7979
Burk, Emmett K IM
Westowne III
Liberty, MO 64068
816-781-8100
Burroughs, Nathan D OTO
2700 Hospital Drive
No Kansas City, MO 64116
816-421-0540
Calhoun, Terry L IM
5601 N Antioch Rd.
Suite 12
Kansas City, MO 64119
816-453-6100
Cashier, Dwight GP
5703 N.W. 64th Terrace
Parkville, MO 64151
816-741-5542
Castillo, Michael E OPH
Westowne V Suite 501
Liberty, MO 64068
816-781-9120
Chatkupt, Suthon GS
1205 N Jesse James Rd
Excelsior Sprgs, MO 64024
816-637-2155
Cook, Jerry W OPH
7010 N Cherry
Kansas City, MO 64118
816-436-4204
Cooper, Barry R DR
2800 Hospital Drive
N Kansas City, MO 64116
816-221-1600
Cooper, Gary D GE
Suite 100 Westowne III
Liberty, MO 64068
816-781-8100
Curnow, Richard B ORS
Westowne Offices
Liberty, MO 64068
816-781-6066
*Davis, Larry E AN
2800 Hospital Dr.
Kansas City, MO 64116
816-346-7760
Del Muro, Francisco GP
5601 Antioch Rd Ste 8
Kansas City, MO 64119
816-454-1300
Deligeorges, John OPH
7010 N Cherry
Kansas City, MO 64118
816-436-4204
Devine, Mark W OTO
2700 Hospital Drive
N Kansas City, MO 64116
816-421-0540
Dill-Bergmann, Debra A AN
2700 Rockcreek Pkwy Ste 306
N Kansas City, MO 64117
816-221-5050
*Dykstra, John S R
Parvin Medical Building
2001 NE Parvin Road
Kansas City, MO 64116
816-455-0661
DyRagos, Ramon R NS
5700 N. Broadway
P.O. Box 28567
Kansas City, MO 64118
Edwards, Theodore F PD
Suite 8 5545 N Oak Trfway
Kansas City, MO 64118
816-455-1951
Epstein, Mark L GS
P. O. Box 412
Smithville, MO 64089
816-532-4600
Fakhoury, Donald A GP
4030 N Oak St
Kansas City, MO 64116
816-453-0900
Fischer, Edward H CD
122 Woodlands Box 11
Gladstone, MO 64119
816-452-1249
Fish, William W FP
144 Westwoods Dr.
Liberty, MO 64068
816-781-7730
Flanders, Virgil E FP
6804 N. Wayne
Kansas City, MO 64118
Fortin, Don G PS
4444 N. Belleview Suite 204
Kansas City, MO 64116
816-455-3062
Fowler, I C OM
1617 Bentwood
Sun City Center, FL 33570
Gauer, Robt J PD
5601 Antioch Rd
Kansas City, MO 64119
816-453-3000
Geraghty, Thomas E PS
4444 N. Belleview
Kansas City, MO 64116
Gordon, Mark E IM
2929 Baltimore Suite 450
Kansas City, MO 64108
816-474-9232
Haas, Robert W ORS
Suite R Westowne Office
Liberty, MO 64068
816-781-6066
Hagan, John C OPH
2700 Hospital Dr
No Kansas City, MO 64116
816-421-0900
Haley, Ted M GP
405 E 19th Ave
Kansas City, MO 64116
816-471-2414
*Hamilton, William V OBG
2601 Kendallwood Pkwy
Suite 102
Gladstone, MO 64119
816-453-2660
Hayes, Lawrence L GP
8630 N Oak St Trfwy
Kansas City, MO 64155
816-436-1800
Hedges, Richard C OM
2025 Swift
N. Kansas City, MO 64116
816-221-0058
Hendren, Thos H GS
Westowne III Ste 101
Liberty, MO 64068
816-781-3515
Henry, Jos E IM
8901 W. 74th St.
Suite 348
Shawnee Mission, KS 66208
913-432-8000
Hodge, Robt H IM
2204 NE 39th St
Kansas City, MO 64116
816-452-1362
Hunter, James G CHP
2900 Hospital Drive
No. Kansas City, MO 64116
816-346-7800
*Hyman, Henry T OBG
2601 Kendallwood Pkwy #102A
Kansas City, MO 64119
816-453-2664
Jackson, Roger P ORS
340 Professional Bldg North
2700 Hospital Dr.
Kansas City, MO 64116
Kanne, Marty A FP
8630 N Oak Trafficway
Kansas City, MO 64155
816-436-1800
Katf, Nicola Y P
3 West 126th Terrace
Kansas City, MO 64145
816-444-4082
Kauk, Bruce A IM
2029 Burlington
N Kansas City, MO 64116
816-474-9232
Kelly, Joseph G AN
5803 N.E. 41st #D
Kansas City, MO 64117
Ketcherside, William J NS
2929 Baltimore Suite 425
Kansas City, MO 64108
816-561-8288
Kirkland, Jerry A IM
8630 North Oak
Kansas City, MO 64155
816-436-1800
Kobbermann, Thomas W OBG
Northland Obstetrics
28 Westwoods Dr.
Liberty, MO 64068
816-474-5310
Kuenzi, Donald E FP
8630 N Oak Trfwy
Kansas City, MO 64155
816-436-1800
*Landers, Gary A EM
2800 Hospital Drive
N Kansas City, MO 64116
816-221-1600
Latimer, Walter N PD
5950 N. Oak Suite 103
Gladstone, MO 64118
*Leary, Patrick F GP
106 West Third St.
Lawson, MO 64062
816-296-3235
Leslie, Stephen A PDA
6401 N. Prospect
Gladstone, MO 64119
816-454-5200
Lila, Aram IM
1205 N Jesse James Rd
Excelsior Spgs., MO 64024
816-637-2155
*Lillig, James F GP
4110 N.E. Vivion Rd.
Kansas City, MO 64119
816-455-1640
Littlejohn, Robert T ORS
2700 Hospital Drive
N Kansas City, MO 64116
816-474-5240

---

* Doctor of osteopathy

Mann, Kenneth R IM
Suite 530 2700 Hospital Dr.
Kansas City, MO 64116
816-421-4240

McCalla, John P AN
649 Huntington Rd
Kansas City, MO 64113
816-361-4543

McCanse, Lynn R U
2700 Hospital Suite 200
No. Kansas City, MO 64116
816-842-6717

McCluggage, Newton C IM
2700 Hospital Dr
No. Kansas City, MO 64116
816-421-4240

McCormick, James E GP
4030 N Oak St
Kansas City, MO 64116
816-453-0900

McCray, Stephen A AN
4404 NW Briarcliff Lane
Gladstone, MO 64116
816-453-4688

McGovney, Janice K IM
620 Commercial St.
Smithville, MO 64089
816-532-3700

McNamara, Gerald R ORS
Westowne VII Suite 700
Liberty, MO 64068
816-781-5877

McPhee, Wm R PTH
1205 W 76th St
Kansas City, MO 64114
816-363-2538

Mullins, Bernard L GP
405 E 19th Ave.
No. Kansas City, MO 64116
816-471-2414

Myers, David W OBG
610 S Commercial Ave
Smithville, MO 64089
816-532-4700

*Newhouse, Richard G P
2900 Hospital Drive
Kansas City, MO 64116
816-346-7800

Nourbakhsh, Mahmoud M GS
405 E 19th Ave
N Kansas City, MO 64116
816-471-0909

Nussbaum, Larry PD
2525 Glenn Hendren Dr.
Liberty, MO 64068
816-781-7200

*Olmstead, John P OM
2025 Swift
No. Kansas City, MO 64116
816-221-0058

Papageorge, Dean W OBG
2700 Hospital Dr. Suite 500
No. Kansas City, MO 64116
816-474-5310

Pileggi, Felix A GP
405 E 19th St
N Kansas City, MO 64116
816-471-2414

Pingleton, William W PUD
8901 W. 74th St. Suite 348
Shawnee Mission, KS 66204
913-432-8000

Piontek, James F AN
615 Nashva Road
Liberty, MO 64068
816-781-0858

Prickett, David C Jr EM
N Kansas City Mem Hosp.
2800 Hospital Dr
Kansas City, MO 64116
816-587-1000

Purcell, Paul W GP
201 Union Ave. S.E. No. 12
Renton, WA 98056

Reeder, Chas C GP
620 Commercial Avenue
Smithville, MO 64089
816-532-0200

Revare, Paul FP
8517 N. Beaman
Kansas City, MO 64154

*Ricci, Robert G R
Parvin Medical Building
2001 NE Parvin Road
Kansas City, MO 64116
816-455-0661

Robinson, Van M OBG
P. O. Box 2536
Carefree, AZ 85377

Rochelle, James R ORS
2030 Swift
Kansas City, MO 64116
816-421-4880

Rockwell, Wayne L OBG
2508 Arno
Mission Hills, KS 66208
816-474-5310

Rodas, Rizalina PD
2700 Hospital Dr
Kansas City, MO 64116
816-421-0188

Ross, Walter R Jr PUD
114-B Westwoods Dr.
Liberty, MO 64068
816-781-8445

Russell, Nancy R IM
5140 North Antioch Road
Kansas City, MO 64119
816-453-5545

Russell, Steven L IM
NKC Hospital Emergency Room
2800 Hospital Dr.
Kansas City, MO 64116
816-221-1600

*Saleh, George A OBG
5500 N. Oak Trfwy
Kansas City, MO 64118
816-452-7300

Sawyer, Floyd E PD
5350 North Oak Trafficway
Kansas City, MO 64118
816-452-4040

Saxon, Keith G OTO
Westowne IV, Suite 205
Liberty, MO 64068
816-781-4178

Schertz, Truman B OPH
2700 Hospital Dr Ste 400
N Kansas City, MO 64116
816-221-7880

Schutz, John P US
1236 Jesse James Road
Excelsior Spgs, MO 64024
816-637-6023

Shinn, Michael E FP
4030 N. Oak Trafficway
Kansas City, MO 64116
816-453-0900

Siegel, Charles PD
6000 N. Oak Trafficway #102
Gladstone, MO 64118
816-453-7771

Simon, Gracita S AN
1020 N Woodland Dr
Kansas City, MO 64118
816-453-3700

Sitzmann, Bryan L FP
4030 North Oak St Trafficway
Kansas City, MO 64116
816-453-0900

Slaughter, Carl R OBG
5601 N.E. Antioch Rd.
Suite 1
Kansas City, MO 64119
816-453-1870

*Smith, Chas H OM
2025 Swift
Kansas City, MO 64116
816-221-0058

Somoza, Jose R PTH
15 N E Hill St
Kansas City, MO 64116
816-452-5656

Sportsman, Weldon L A
7504 N Oak St Trfy
Kansas City, MO 64118
816-436-7100

*Steinberg, Lee M R
Parvin Medical Building
2001 N.E. Parvin Rd.
Kansas City, MO 64116
816-455-0661

Stewart, James L IM
9801 Hampton Woods Dr.
Kansas City, MO 64152

Stratman, Clarence A FP
6002A N Antioch Road
Kansas City, MO 64119
816-454-2666

Thomas, Fred A D
5601 N Antioch
Kansas City, MO 64119
816-454-3424

Triplett, Danl A OBG
Northland Obstetrics
28 Westwoods Dr.
Liberty, MO 64068
816-474-5310

True, James D P
508 N.W. 44th St.
Gladstone, MO 64116
816-221-1600

Tumanut, Benesto F OTO
504 NE 70
Gladstone, MO 64118
816-436-2727

Underwood, Johnson III GS
5601 N.e. Antioch Rd. # 9
Kansas City, MO 64119
816-453-4000

Vilmer, Charles E ORS
2030 Swift Ave
No. Kansas City, MO 64116
816-842-8404

Vilmer, Stephen E ORS
7550 W. 99th Terr
Shawnee Mission, KS 66212
913-341-5527

Vinton, Thomas J FP
140 Westwoods Drive
Liberty, MO 64068
816-781-4740

Walker, Donald E Jr P
4320 Wornall Rd. Suite 704
Kansas City, MO 64111
816-474-5747

Waltz, James R GS
Westowe III Suite 101
Liberty, MO 64068
816-781-3515

Waterman, Franklin M GP
1201 W. College #1
Liberty, MO 64068
816-781-4557

Webb, John M GS
525 Professional Bldg N
2700 Hospital Dr
Kansas City, MO 64116
816-474-6464

Weide, Allan R U
P.O.box 12361
2700 Hosp.Dr.Suite 200
N Kansas City, MO 64116
816-842-6717

Werner, Dean F OM
4609 N. Main
Kansas City, MO 64116

Werner, F. Scott GS
Suite 9 5601 NE Antioch Rd.
Kansas City, MO 64119
816-453-4000

Werner, Franklin C GS
5601 N. E. Antioch Rd. #9
Kansas City, MO 64119
816-453-4000

Wheeler, Paul D OBG
Northland Obstetrics
28 Westwoods Dr.
Liberty, MO 64068
816-474-5310

Wicks, Edwin O PH
506 N.W. 43rd Terrace
Kansas City, MO 64116
816-454-4346

Williams, John M GP
102 S Forest
Liberty, MO 64068
816-781-4711

Williams, Robt D TS
6700 Troost Ave Suite 348
Kansas City, MO 64131
816-333-9332

Williamson, Geo L ORS
14413 N. 29th Ave.
Phoenix, AZ 85023
816-842-8404

Wilson, David E FP
8630 N Oak Trafficway
Kansas City, MO 64155
816-436-1800

Wilson, Timothy A FP
5800 N.W. Barry Road
Kansas City, MO 64154
816-587-1000

Withrow, John B FP
3925 N Main
Kansas City, MO 64116
816-452-2455

Workman, Chas E ORS
6609 Milhaven Dr.
Mission, KS 66202

Woy, George H ORS
Suite 700 Westowne VII
Liberty, MO 64068
816-781-5877

Wright, Earl J PTH
2800 Hospital Drive
Kansas City, MO 64116
816-474-5656

Young, Patricia A AN
3901 N.E. 57th Terrace
Gladstone, MO 64119
816-453-3510

054—CLINTON

Krickbaum, John H GP
Plattsburg Medical Clinic
400 West Clay
Plattsburg, MO 64477
816-539-2117

Luckenbill, Paul T GP
Box 353
Plattsburg, MO 64477
816-539-2117

Spalding, Wilber B Sr GP
Plattsburg, MO 64477

Sweiger, James H GP
Route 1
Plattsburg, MO 64477
816-539-2117

---

* Doctor of osteopathy

058—COLE

Allan, James E FP
2709 Industrial Dr.
Suite A
Jefferson City, MO 65101
314-893-5535

Belden, Edgar A PH
2124 Lowell
Jefferson City, MO 65101
314-636-4497

Belshe, Sidney B DR
1922 Brookgreen
Jefferson City, MO 65101
314-636-4215

Billian, Virginia L P
907-C Leslie
Jefferson City, MO 65101
314-635-2130

Boyer, Peter A IM
1505 Southwest Blvd
Jefferson City, MO 65101
314-634-2620

Braun, Alan L IM
525 Belair
Jefferson City, MO 65101

Bregant, Robt E IM
1505 Southwest Blvd
Jefferson City, MO 65101
314-634-2620

Busby, Wm E PD
200 St. Mary's Med. Plaza, Ste. 103
Jefferson City, MO 65101
314-634-2344

*Cameron, Roger W ORS
1433 Southwest Blvd.
Jefferson City, MO 65101
314-636-5285

Cooper, Chas W II FP
300 E Dunklin
Jefferson City, MO 65101
314-636-2169

Courter, Larry P R
RR 1 Box 400
Osage Beach, MO 65065

Cox, Curtis S NS
1433 Southwest Blvd.
Jefferson City, MO 65101
314-636-5285

Cox, Wm A FP
J825 S. Gulfview Blvd. 201
Clearwater BC, FL 33515

Craighead, Michael L GS
1309 Edgewood
Jefferson City, MO 65101
314-635-2300

Davisson, Walter F OPH
1820 Southwest Blvd.
Jefferson City, MO 65101
314-635-0115

Denton, John L OBG
1505 Southwest Blvd.
Jefferson City, MO 65101
314-634-3666

Doerhoff, Adelia L AN
1015 Madison
Jefferson City, MO 65101
314-635-5010

Doerhoff, Alan R GS
1111 Madison
Jefferson City, MO 65101
314-635-5010

Doerhoff, Carl R GS
1111 Madison St.
Jefferson City, MO 65101
314-635-5010

Domke, Henry F FP
1314 W. Edgewood Dr.
Jefferson City, MO 65101
314-634-5000

Exon, C S GS
1505 Southwest Blvd
Jefferson City, MO 65101
314-634-3334

Falzone, John J U
1025 Northeast Drive
Urology Care Inc
Jefferson City, MO 65101
314-636-5115

Ferris, Robert E OBG
1431 Southwest Blvd.
Jefferson City, MO 65101
314-636-5248

Fullgrabe, Emil A GP
P. O. Box 1801
Jefferson City, MO 65102

Garner, Royal S FP
1804 Southwest Blvd
Jefferson City, MO 65101
314-636-4181

*Giffen, L E FP
420 East High Street
Jefferson City, MO 65101
314-635-0916

Gordon, James S AN
600 Boonville Rd
Jefferson City, MO 65101
314-635-5533

Guhleman, Henry V P
2018 Greenberry Rd.
Jefferson City, MO 65101

Gunn, Victoria D
1026 B Northeast Dr.
Jefferson City, MO 65101
314-634-4200

Handler, Fred P PTH
139L North Central
Clayton, MO 63105
314-721-5833

Harmon, Robert G IM
P. O. Box 570
Jefferson City, MO 65102
314-751-4330

Hauser, Robt J OBG
1431 Southwest Blvd
Jefferson City, MO 65101
314-636-5248

Henry, Lawrence D PTH
715 Swift Highway
Jefferson City, MO 65101
314-636-8818

Hooshmand, Ahmad N
915 SW Blvd. Suite E
Jefferson City, MO 65101
314-634-4700

Hughes, Derek P
Doctors Park
1111 Madison
Jefferson City, MO 65101
314-635-5773

Kanagawa, Harold K IM
701 W High
Jefferson City, MO 65101
314-636-7183

Klebba, Larry B FP
P O Box 403
Jefferson City, MO 65101
314-636-3231

Krautmann, John J ORS
1433 Southwest Blvd
Jefferson City, MO 65101
314-636-5285

Landsbaum, Charles J IM
701 W High St
Jefferson City, MO 65101
314-636-7183

Leslie, James T ORS
1433 Southwest Blvd
Jefferson City, MO 65101
314-636-5285

Loyd, Earl L IM
R.R. 3 Box 3522
Riviera Heights
Holts Summit, MO 65043

Lueckenhoff, Rebecca R FP
1314 W. Edgewood
Jefferson City, MO 65101
314-636-3313

Lyskowski, John C P
1101 A Southwest Blvd.
Jefferson City, MO 65101
314-634-5303

Marshall, William H OBG
1431 Southwest Blvd.
Jefferson City, MO 65101
314-636-5248

Marty, David R OTO
1021 Northeast Dr.
Jefferson City, MO 65101
314-635-7901

Matthews, John I IM
1314 Moreau Dr
Jefferson City, MO 65101
314-636-7183

McCaffree, Mary K IM
812 Crestmere
Jefferson City, MO 65101
314-634-2620

McElroy, George L III PD
200 St. Marys Med. Plaza, Ste. 103
Jefferson City, MO 65101
314-634-2344

Meier, Francis X FP
1913 Hayselton Dr
Jefferson City, MO 65101
314-636-9742

*Michael, Roy A AN
1015 Madison St.
Jefferson City, MO 65101
314-635-5010

Miller, Donald IM
Route 6 Box 320
Jefferson City, MO 65101
314-636-7183

*Morley, Ronald F AN
915 Leslie Blvd.
Jefferson City, MO 65101
314-635-5533

Ossman, Julian A GS
2407 W Main
Jefferson City, MO 65101
314-636-9742

Ragland, John E GP
P O Box 517
Linn, MO 65051
314-897-2237

Rea, James L OTO
1021 Northeast Dr.
Jefferson City, MO 65101
314-635-7901

Robbins, Thomas D FP
913 A Leslie Blvd
Jefferson City, MO 65101
314-635-9999

Ryan, Thomas J ORS
1433 Southwest Blvd
Jefferson City, MO 65101
314-636-5285

Sanders, Jack S CD
1505 Southwest Blvd
Jefferson City, MO 65101
314-634-2620

Scearce, Robert L DR
420 Crystal View Terr.
Jefferson City, MO 65101
314-636-4215

*Schekorra, Fred W AN
915 Leslie Blvd. Suite E
Jefferson City, MO 65101
314-635-5533

Scherr, David D ORS
1111 Madison St
Jefferson City, MO 65101
314-634-4202

Schmidt, Jerome H U
1025 Northeast Drive
Jefferson City, MO 65101
314-636-5115

Schokker, Johannes GS
1431 Southwest Blvd
Jefferson City, MO 65101
314-635-9011

Scott, E David FP
2009 E McCarty
Jefferson City, MO 65101
314-635-2542

Shull, G D FP
1925 Hayselton Drive
Jefferson City, MO 65101
314-635-1460

Siu, Kenneth K C GS
1309 Edgewood
Jefferson City, MO 65101
314-635-2300

Stauffer, Harry B OPH
830 Boonville Road
Jefferson City, MO 65101

Stauffer, Larry K OPH
P. O. Box 1669
Jefferson City, MO 65102
314-634-3221

Stricker, Harold C OBG
Route 5, Box 535 Zion Road
Jefferson City, MO 65101
314-636-8887

Su, Philo S OBG
418 Valley Park Dr
Jefferson City, MO 65101
314-893-5500

Sugarbaker, Everett D GS
503 E High St
Jefferson City, MO 65101
314-636-8542

Summers, Jos S DR
515 East High
Jefferson City, MO 65101
314-636-2657

Tanner, Robt H FP
1505 Southwest Blvd
Jefferson City, MO 65101
314-636-7161

Taylor, Leon A GP
1104 W Main St
Jefferson City, MO 65101

VanVranken, Eugene E PH
2037 Tower
Jefferson City, MO 65101
314-635-5017

Volini, Frederick I PTH
915 Southwest Blvd #F
Jefferson City, MO 65101
314-635-8141

Wankum, Robert P OPH
1101 D Southwest Boulevard
Jefferson City, MO 65101
314-634-2722

Watts, Byron E R
2937 Valley View Terrace
Jefferson City, MO 65101
314-893-2937

Weiss, James J FP
1505 Southwest Blvd
Jefferson City, MO 65101
314-636-3192

Werth, Jos A D
1233 Jefferson St.
Jefferson City, MO 65101
314-634-2933

Westhoff, David D IM
1505 Southwest Blvd
Jefferson City, MO 65101
314-634-2620

---

* Doctor of osteopathy.

White, Nelson P FP
Rt. 7 Box 28B
Neosho, MO 64850
314-635-0181
Winegar, Alvon C OBG
1603 B Jefferson Hts. Apts.
Jefferson City, MO 65101
*Young, Michael A NEP
1111 Madison St.
Jefferson City, MO 65101
314-635-2495

062—COOPER

Abele, Wm A IM
620 Main St
Boonville, MO 65233
816-882-7481
Humphreys, Edward T GS
1123 Third St.
Boonville, MO 65233
Judy, Jos D IM
111 Church St. Suite 108 109
Ferguson, MO 63135
314-522-8665
Stuart, Byron M IM
910 Shamrock Terrace
Boonville, MO 65233
816-882-5679
Winn, Geo W GS
607 Poplar
Boonville, MO 65233
816-882-6218

056—DALLAS-HICKORY-POLK-DADE

Abdel-Salam, Ahmed S GS
Rt #1 Praire Height
Bolivar, MO 65613
417-326-2491
Carnell, Billy M GP
P. O. Box 830
Buffalo, MO 65622
417-345-6101
Cole, Donald E GP
Hermitage Family Medical Ctr
Box 125 Dallas St.
Hermitage, Mo 65668
417-745-2121
Crabtree, Jay B DR
Citizens Memorial Hospital
Bolivar, MO 65613
417-326-6000
Dias, Wenceslaus P GS
1100 So. Springfield
Bolivar, MO 65613
417-326-3630
Donnell, William S Jr FP
1300 N. Oakland
Bolivar, MO 65613
417-326-6021
Griffin, M E FP
3433 Cooper Blvd.
Springfield, MO 65802
Griffin, Olin A PH
3433 Cooper Blvd.
Springfield, MO 65802
Kahler, Monte R GP
Route 4 Box 14A
Bolivar, MO 65613
417-326-7676
Kakolewski, Jan W P
408 Water
Greenfield, MO 65661
417-637-5622
Koon, Benny H FP
1300 North Oakland
Bolivar, MO 65613
417-326-6021
Magaw, David C GP
Rt 1 Box 145
Everton, MO 65646
McCraw, Doyle C GP
711 N. Main
P. O. Box 117
Bolivar, MO 65613
417-326-4112
Molchan, James L GS
P. O. Box 507
Bolivar, MO 65613
417-326-3765
Nix, J. Gustavo IM
1100 S. Springfield
Bolivar, MO 65613
314-326-8500

Rios, Ruth S FP
451 South Albany
Bolivar, MO 65613
417-326-6231
Wright, Keith A FP
1300 N. Oakland
Bolivar, MO 65613
417-326-6021

070—DUNKLIN

Cheng, Tuan Chou U
P. O. Box 309
Kennett, MO 63857
314-888-4977
English, Wallace D FP
P O Box 107
Cardwell, MO 63829
314-654-3414
Kakaiya, Dilip H GS
P.O. Box 607
Kennett, MO 63857
314-888-2628
Kuntze, Randall P US
P. O. Box 230
Kennett, MO 63857
314-888-5966
Kuo, Gong T OBG
1101 Kenwood
Kennett, MO 63857
314-888-1117
Levine, Myron A OBG
1231 First Street
Kennett, MO 63857
314-888-1110
Manubay, Teodoro R
204 W Linden Circle
Kennett, MO 63857
314-888-9823
Miltenberger, Paul C GS
705 West Washington
Kennett, MO 63857
314-888-3319
Morehead, Wm E GP
505 N Beckwith
Malden, MO 63863
314-276-2221
Nguyen, Tuyen M GS
P. O. Box 607
Kennett, MO 63857
314-888-2628
Palenske, Robt L FP
Hornersville, MO 63855
314-737-2281
314-737-2281
Pehlman, Jos E PD
1207 North Douglas
Box 526
Malden, MO 63863
314-270-3884
Plunk, Otis A GP
215 Teaco Rd.
Kennett, MO 63857
314-888-1511
Pu, Pin H PTH
P.O.Box 827
Kennett, MO 63857
314-888-4932
Robinson, Nicholas F IM
906 St. Francis
Kennett, MO 63857
314-888-6603
Schaffer, Valerie A GP
905 Falcon
Kennett, MO 63857
314-448-3165
Sinasa, Surat IM
501 Teaco Rd.
Kennett, MO 63857
314-888-3533
Sisler, Maynard L IM
217 College
Kennett, MO 63857
314-888-4992
Zimmerman, Joe A GP
1105 White Oaks Pl.
Kennett, MO 63857
314-888-4522

074—FRANKLIN-GASCONADE-WARREN

Allen, Jerry H PD
800 E. Fifth St
Suite 202
Washington, MO 63090
314-239-7892
Apte, Sunil M U
800 East Fifth St. Suite 305
Washington, MO 63090
314-239-7559

Aulenbacher, Carl E GS
800 E. 5th Suite 104
Washington, MO 63090
314-239-7727
Baker, Donald L FP
301 Hwy 50 West
Union, MO 63084
314-583-2508
Baker, Gary E PD
800 E 5th St.
Suite 304
Washington, MO 63090
314-239-7892
Banerjee, Dilip IM
800 E 5th Suite 205
Washington, MO 63090
314-239-2711
Bonney, Saml C EM
Urgi care Inc.
1801 Heritage Hills Ctr
Washington, MO 63090
314-239-4123
Brunworth, David FP
10 Franklin
Washington, MO 63090
314-239-2741
Cassat, James D GS
800 E. 5th St. Suite 104
Washington, MO 63090
314-239-7727
Clark, Michael L AN
603 Steamboat Drive
Washington, MO 63090
314-239-4976
Colter, Kim D FP
800 E. 5th St
Washington, MO 63090
314-239-4100
Crane, John B P
1113 E. 5th St.
Washington, MO 63090
314-239-7705
Dierberg, Dale F DR
2753 Autumn Run Ct.
Chesterfield, MO 63017
314-486-2191
Eisenmann, Benj P FP
New Haven, MO 63068
314-237-2123
Farrell, Sammy L FP
10 Franklin
Washington, MO 63090
314-239-2741
Hoelscher, Harold F GP
P. O. Box 670
Lake Ozark, MO 65049
Jamroz, Greg A R
200 Madison Ave.
Washington, MO 63090
314-239-7711
Kim, Yang H OBG
800 East 5th St.
Suite 105
Washington, MO 63090
314-239-6600
Lentz, Kathy J OPH
12 West 12th Street
Washington, MO 63090
314-239-2008
Lenzenhuber, Karl J R
200 Madison Ave.
Washington, MO 63090
314-239-7711
Long, Timothy P FP
Box 308
Marthasville, MO 63357
314-433-5411
Marchiando, Albert W OTO
800 E Fifth St. Suite 113
Washington, MO 63090
314-239-1770
Mitchell, Thos J FP
75 N. Commercial
St Clair, MO 63077
314-629-1141
Moellenhoff, Robt W IM
900 E. 8th St. Suite C.
Washington, MO 63090
314-239-4300
Murney, Joseph GS
800 E. 5th St.
Suite 202
Washington, MO 63090
314-239-3200
O'Connor, John J FP
615 S. Third
Warrenton, MO 63383
314-456-3858
Rau, Michael E IM
800 E. 5th St.
Washington, MO 63098
314-239-0444
Rawson, Perry G PTH
St Francis Mercy Hosp.
Washington, MO 63090
314-239-7711
Richardson, Geo A FP
301 Hwy 50 West
Union, MO 63084
314-583-2508

---

* Doctor of osteopathy.

Richardson, Wm R FP
301 Hwy 50 West
Union, MO 63084
314-583-2508
Seeck, Linda E OBG
800 E. 5th St. Suite 302
Washington, MO 63090
314-239-1344
Shaw, James T FP
Rt. 1, Box 30-1
Hermann, MO 65041
314-486-2118
Shea, James G IM
2 Hillcrest Place
Washington, MO 63090
314-239-7500
Short, Howard N OPH
800 E 5th St. Suite 301
Washington, MO 63090
314-239-1650
Sincox, Chas H FP
205 Elm
Washington, MO 63090
314-239-7566
Smith, Kenneth B IM
800 E 5th Suite 102
Washington, MO 63090
314-239-7500
Steinberger, Robert ORS
P.O. Box 149
Washington, MO 63090
314-239-2900
Strehlman, Benj G FP
4201 Bonita Rd. 243
Bonita, CA 92002
Tucker, Leslie E IM
Suite 201 800 E. Fifth St.
Washington, MO 63090
314-239-7344
Turner, James D FP
800 E. 5th
Washington, MO 63090
314-239-4100
Workman, Geo M FP
P O Box 246
18th & Wein St
Hermann, MO 65041
314-486-2118

078—GRAND RIVER (Caldwell-Carroll-Livingston-Grundy-Daviess-Harrison-Linn-Mercer-DeKalb Counties)

Bohnsack, Ralph W GP
P.O. Box 3860
Estes Park, CO 80517
Boulware, William T IM
103 Elleventh St. 14
Chillicothe, MO 64601
816-646-3800
Brooks, Carolyn E GP
Hamilton Medical Center
Cross St.
Hamilton, MO 64644
816-583-2151
Broyles, Watkins A GP
P O Box 352
Bethany, MO 64424
Conrad, Jos A GP
1202 Jackson
Chillicothe, MO 64601
Cross, Albert D GP
618 E First St
Trenton, MO 64683
Daley, Frank R GP
207 West Berry
Hamilton, MO 64644
Dixon, John R GS
125 E Lockling St
Brookfield, MO 64628
816-258-2009
Duffy, Oliver F US
Rt 4, Box 118
Trenton, MO 64683
Ellsworth, Willard GP
131 E. 7th St. Apt. 11
Trenton, MO 64683
Fair, Wm L FP
910 Clay St
Chillicothe, MO 64601
Gale, Jos F GP
1710 Polk St.
Chillicothe, MO 64601
816-646-1781
Galvez, Sisenando P IM
105 S Kansas
Marceline, MO 64658

Gearhart, Merriam GS
P.O. Box 449
Bethany, MO 64424
816-425-3152
Howell, Billy D GP
125 E. Lockling
Brookfield, MO 64628
Mandler, Geo OTO
Hedrick Office Bldg. #9
103 Eleventh St.
Chillicothe, MO 64601
Nixon, Edward E GP
Gallatin, MO 64640
Patel, Hansa N FP
P. O. Box 506
Bethany, MO 64424
816-425-3150
Patel, Natu B FP
P. O. Box 506
Bethany, MO 64424
816-425-3150
Platz, John H GP
16 N Monroe St
Carrollton, MO 64633
Rivera, Minerva M IM
308 N. Main St.
Brookfield, MO 64628
• 258-332-0000
Rivera, Pepito C GS
308 N Main
Brookfield, MO 64628
Rose, John F R
2105 Meadow Lane Circle
Chillicothe, MO 64601
Ryan, David FP
902 Custer
Trenton, MO 64683
816-359-4317
Santner, Floyd A FP
225 W. Hayden
Marceline, MO 64658
Smith, Robt W GP
P. O. Box 497
Brookfield, MO 64628
816-258-2294
Staley, David L FP
Carroll County Mem Hosp.
Carrollton, MO 64633
816-542-0011
Staton, R H GP
215 S Main St
Carrollton, MO 64633
Szymanski, Stanley R R
Box 366
Macon, MO 63552
Trinidad, Hermanito R GS
103 - 11th St. Suite 8
Chillicothe, MO 64601
Yoon, Jin S OBG
103 11th St
Chillicothe, MO 64601
Youssef, Redwan OPH
103 Eleventh St. Suite 11
Hedrick Office Building
Chillicothe, MO 64601

082—GREENE

Alcancia, Elpidio Y TR
3150 S. National
Springfield, MO 65804
417-887-4270
Allen, Jerry H GS
3231 South National
Springfield, MO 65807
417-883-7422
Allison, James B P
2200 E Sunshine Ste 301
Springfield, MO 65804
417-883-2525
Ameduri, Clifford J PM
1235 E. Cherokee
Springfield, MO 65804
816-885-3397
Ancheta, Apolinario A GS
1443 N. Robberson Suite 504
Springfield, MO 65802
417-869-4145
Anderson, Douglas A PTH
1235 East Cherokee
Springfield, MO 65804
417-885-2961
Anthony, Dallas D R
1322 South Pickwick
Springfield, MO 65804
417-862-9776
Armstrong, Stephen D RHU
1001 E Primrose
Springfield, MO 65807
417-885-7130
Arnold, Paul N OPH
1965 S. Fremont Ste 2000
Springfield, MO 65804
417-887-1965

Ash, Charles J ORS
1443 N Robberson St
Suite 308
Springfield, MO 65802
417-836-8800
Ashley, Michael E GS
3231 South National
Springfield, MO 65807
417-883-7422
Ashley, Thos E GS
3231 South National
Springfield, MO 65807
417-883-7422
Atkinson, Lance D FP
626 E. Battlefield
Springfield, MO 65807
417-881-2180
Auner, Cecil R IM
1000 E. Primrose Suite 540
Springfield, MO 65807
417-882-7252
Axness, Mark E AN
3660 S. National Suite 350
Springfield, MO 65807
417-881-0750
Back, Donald K IM
3231 South National
Springfield, MO 65807
417-883-7422
Bagby, Jack M Jr AN
1900 South National #1800
Springfield, MO 65804
417-887-6323
Bailey, Alan H PUD
2242 Barataria
Springfield, MO 65804
417-881-4573
Baker, David M FP
440 S. Market
Springfield, MO 65806
417-865-5581
Baldwin, Richard M OBG
1000 E. Primrose Suite 440
Springfield, MO 65807
417-885-6262
Barnhill, Floyd R OTO
1900 South National
Suite 2300
Springfield, MO 65804
417-887-5750
Bartlett, John E DR
208 Medical Tower
1443 N. Robberson
Springfield, MO 65802
417-865-5521
Bartley, Richard L FP
Southwest Missouri St Univ
Taylor Health Center
Springfield, MO 65804
417-836-5540
Beisner, Donald H OPH
2900 S Fremont
Springfield, MO 65804
417-887-3900
Bell, Laird A OBG
National Ave. Med. Bldg.
1900 S National 2960 NW
Springfield, MO 65804
417-887-5500
Bennett, Robert U ORS
1900 S. National
Suite 1950
Springfield, MO 65804
417-882-1900
Benson, Ronald G OBG
1000 E. Primrose, Suite 200
Springfield, MO 65807
417-887-0966
Bentley, John D IM
1900 S National
Suite 2200
Springfield, MO 65804
417-887-4000
Berner, Carol T FP
1900 S. National Suite 2800
Springfield, MO 65804
417-881-8818
Berry, Paul T FP
1740 S Glenstone Off O
Springfield, MO 65804
417-883-3533
Best, John F CD
3231 South National
Springfield, MO 65807
417-833-7422
Blades, Ross D U
3231 S. National
Springfield, MO 65807
417-883-7422
Blaine, James R EM
St. Johns Reg. Health Ctr.
1235 E. Cherokee
Springfield, MO 65804
417-885-2000
Bonebrake, Albert J OBG
1900 South National
Suite 2960 NW
Springfield, MO 65804
417-887-5500

• Doctor of osteopathy.

Bonebrake, Mac D OBG
National Ave. Med. Bldg.
1900 S National #2960NW
Springfield, MO 65804
417-887-5500
Boone, Martin H Jr AN
1900 South National #1800
Springfield, MO 65804
417-887-6323
Borja, Egbert R IM
209 Professional Building
609 Cherry
Springfield, MO 65806
417-866-7063
Borup, Jerrell L AN
3660 S. National Ste. 350
Springfield, MO 65807
417-881-0750
Brent, Lanny R Jr DR
208 Medical Tower
1443 N. Robberson
Springfield, MO 65802
417-865-5521
Brian, Wm J AN
1900 S. National #1800
Springfield, MO 65804
417-887-6323
Briggs, Thomas B N
1965 S. Freemont Ste 2500
Springfield, MO 65804
417-882-5216
Bright, James E P
1965 South Fremont
Suite 2100
Springfield, MO 65804
417-882-3000
Broaddus, Loren E IM
1001 E. Primrose
Springfield, MO 65807
417-885-7220
Brockman, M. Douglas IM
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771
Brooks, John E N
1000 E. Primrose #310
Springfield, MO 65807
417-886-0005
Brown, David W ORS
1900 S. National
Suite 1980 NW
Springfield, MO 65804
417-882-6040
Brown, James T GS
2222 E Berkeley
Springfield, MO 65804
417-881-9011
Brownsworth, Ronnie D N
3231 S. National Ave.
Springfield, MO 65807
417-883-7422
Burkey, Jordan W OTO
1000 East Primrose Suite 360
Springfield, MO 65807
417-887-9900
Busiek, Paul J PD
Rt 9 Box 402
Springfield, MO 65804
417-881-4391
Busiek, Urban J PD
1635 E. Walnut
Springfield, MO 65802
417-862-6561
Bussmann, Donald W Jr U
3231 S. National
Springfield, MO 65807
417-883-7422
Bussmann, Yvonne L PD
3231 S. National
Springfield, MO 65807
417-883-7422
Cady, Roger K FP
3525 S. National
Springfield, MO 65807
417-882-0850
Caldwell, Joseph L A
3231 South National
Springfield, MO 65807
417-883-7422
Callaway, Guy D Jr IM
901 E. Portland
Springfield, MO 65807
417-862-8612
Canlas, Mario P NS
Suite 2500 1965 S. Fremont
Springfield, MO 65804
417-882-5216
Carlton, Lynn N DR
Box 4763 GSS
Springfield, MO 65808
417-831-1889
Carolla, Robert L ONC
1900 South National
Suite 3600 NW
Springfield, MO 65804
417-882-4880
Carr, Phillip W CD
3231 South National
Springfield, MO 65807
417-883-7422
Ceaser, James H CD
1001 E. Primrose
Springfield, MO 65807
417-885-7210
Ceaser, Nancy H PD
1000 E. Primrose
Springfield, MO 65807
417-885-6184
Christensen, Harold L IM
1001 E. Primrose
Springfield, MO 65807
417-885-7210
Christiansen, Stephen D GS
Nat. Ave. Med. Bldg. #2800
1900 S. National
Springfield, MO 65804
417-881-8819
Christy, Raymond A PD
3231 South National
Springfield, MO 65807
417-883-7422
Christy, Richard R P
1965 Fremont Ave. Suite 2650
Springfield, MO 65804
417-881-4949
Clarke, Michael J GS
3530 E. Catalpa
Springfield, MO 65804
417-883-3363
Clarke, Michael S ORS
1900 S. National
Suite 1950
Springfield, MO 65804
417-882-1900
Clary, Wm F P
1722J S. Glenstone
Springfield, MO 65804
417-881-3124
Clayton, Edgar L PDA
2446 Brentwood Ave.
Springfield, MO 65804
417-881-1283
Clouse, John W ONC
Cox Cancer Center
1423 North Jefferson
Springfield, MO 65802
417-836-3436
Cochran, Thos E IM
3231 South National
Springfield, MO 65807
417-883-7422
Collins, Douglass D PD
1000 E. Primrose Suite 560
Springfield, MO 65807
417-882-1600
Collison, R Michael FP
Smith-Glynn Callaway Clinic
2619 North Kansas
Springfield, MO 65803
417-831-8074
Conrad, Raymond C OBG
1338 S. Delaware
Springfield, MO 65804
417-881-6156
Cook, James R AN
1900 South National #1800
Springfield, MO 65804
417-887-6323
Cooper, C Wesley CD
3231 South National
Springfield, MO 65807
417-883-7422
Cordonnier, James K GS
1001 E. Primrose
Springfield, MO 65807
417-885-7220
Corry, Francis M GS
3231 South National
Springfield, MO 65807
417-883-7422
Coscia, Robert L GS
1900 S. National Suite 2900
Springfield, MO 65804
417-887-4776
Dexter, J Kent IM
Fremont Medical Building
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771
Dillard, Erin M ORS
1900 S. National
Suite 1980 NW
Springfield, MO 65804
417-882-6040
Dills, Jos N GS
RD 2 Box 1504
Williston, FL 32625
Domann, Darrel D PS
901 Medical Tower
1443 N. Robberson
Springfield, MO 65802
417-862-9556
Dowell, J Larry FP
Box 39
Strafford, MO 65757
417-736-2998
Druet, Robert L CLP
1235 E. Cherokee
Pathology Dept
Springfield, MO 65804
417-885-2000
Duensing, George F PTH
Cox Medical Center North
1423 N. Jefferson
Springfield, MO 65802
417-885-6021
Duff, James E IM
Fremont Medical Building
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771
Duncan, Douglas M ORS
1001 E. Primrose
Springfield, MO 65807
417-885-7170
Duncan, Robt D GS
1234 E. Loren
Springfield, MO 65804
417-869-1665
Earls, Jim H P
440 S. Market
Springfield, MO 65806
417-865-5581
Egbert, Robert N NM
1443 N. Robberson Ste. 403
Springfield, MO 65802
417-862-6717
Elkins, Ronald F CRS
2830 E. Glenwood St.
Springfield, MO 65804
417-881-6712
Ellis, Francis J OBG
1900 S. National
Suite 2960 NW
Springfield, MO 65804
417-887-5500
Ellis, Harry L U
1965 S. Fremont Suite 3100
Springfield, MO 65804
417-882-0300
Elworth, Robert L FP
East Shopping Center
Willard, MO 65781
417-742-2522
Ely, Norman B R
1675-J E. Seminole
Springfield, MO 65804
417-881-5033
Enkvetchakul, Boonmee AN
3573 E. Whitehall
Springfield, MO 65804
417-887-3568
Evans, Andrew L IM
1000 E. Primrose Suite 540
Springfield, MO 65807
417-882-7252
Evans, Ezra L PD
2457 E Barataria
Springfield, MO 65804
417-883-7495
Farber, Barry S U
1900 S. National #2700
Springfield, MO 65804
417-887-2090
Farthing, Gene W GS
1235 East Walnut St.
Springfield, MO 65802
417-862-6312
Ferguson, John L IM
1001 E. Primrose
Springfield, MO 65807
417-885-7130
Ferguson, John F NS
1900 S. National Suite 2980
Springfield, MO 65804
417-887-6880
Ferguson, John P OBG
National Ave Med Bldg
1900 S National 2960 NW
Springfield, MO 65804
417-887-5500
Ferrell, Thos E GS
1525 Meadowmere
Springfield, MO 65804
417-862-3027
Fink, Roger L PTH
1000 E. Primrose #130
Springfield, MO 65807
417-885-4646
Fogle, Philip R OBG
1900 S National
Suite 1500
Springfield, MO 65804
417-887-1646
Foote, Daniel D AN
1900 S. National #1800
Springfield, MO 65804
417-887-6323
Froehlich, Thomas W IM
1900 South National #3600
Springfield, MO 65804
417-882-4880
Gamelson, Lyndon W EM
1235 E. Cherokee
Springfield, MO 65804
417-885-2115

---

* Doctor of osteopathy.

Gaska, Walter J PS
3231 South National
Springfield, MO 65807
417-883-7422
Gentry, Jim FP
1301 South Glenstone
Springfield, MO 65804
417-831-7399
Gentry, Merritt L GP
3404 North 10 Mile Drive
Jefferson City, MO 65101
Gentry, Michael A D
1722K S. Glenstone
Springfield, MO 65804
417-883-8162
Gerdes, John A PTH
2200 E. Sunshine
Springfield, MO 65804
417-887-5755
Gerdes, K. Eric R
1675-J East Seminole
Springfield, MO 65804
417-881-5033
German, Walter A OBG
3231 South National
Springfield, MO 65807
417-883-7422
Geter, Rodney K PS
3231 S. National
Springfield, MO 65807
417-883-7422
Gibson, James D GS
1001 E. Primrose
Springfield, MO 65807
417-885-7240
Giddings, Frank C DR
208 Medical Tower
Springfield, MO 65802
417-865-5521
Gill, Paul J IM
3231 South National
Springfield, MO 65807
417-883-7422
Glover, Jack F IM
1443 N. Robberson #1006
Springfield, MO 65802
417-866-2714
Golden, Samuel E PD
1965 S. Fremont Suite 3400
Springfield, MO 65804
417-886-9102
Goodman, Douglas E R
1675-J E. Seminole
Springfield, MO 65804
417-881-5033
Goodwin, J. Wendall IM
3231 South National
Springfield, MO 65807
417-883-7422
Gose, Don F CRS
1001 Primrose St.
Springfield, MO 65807
417-885-7240
Gotti, Edward W NM
1500 E. Sunshine #F
Springfield, MO 65804
417-887-1320
Grace, Steve OBG
National Ave. Med. Bldg.
1900 S National #2960NW
Springfield, MO 65804
417-887-5500
Grant, Ruth HEM
1900 S National
Suite 3600 NW
Springfield, MO 65804
417-882-4880
Graves, Kathleen L OBG
1965 S. Fremont #1800
Springfield, MO 65804
417-887-7887
Griesemer, Bernard A PD
3014J E Sunshine
Springfield, MO 65804
417-887-0727
Gurian, Lawrence E GE
1001 E. Primrose
Springfield, MO 65807
417-885-7260
Gutzmer, Ernest W FP
2714 E Glenwood
Springfield, MO 65804
417-887-4469
Gwin, Edward IM
1001 E. Primrose
Springfield, MO 65807
417-885-7160
H'Doubler, Chas GS
406 Medical Tower
Springfield, MO 65802
417-831-4833
H'Doubler, Francis T GS
1900 S. National #2950
Springfield, MO 65804
417-882-3066
H'Doubler, Peter B GS
Fremont Medical Building
Suite 2300
Springfield, MO 65804
417-882-9400
Hacker, Douglas A N
1675-J East Siminole
Springfield, MO 65804
417-881-5033
Haddow, Alastair D ID
1900 S. National Suite 2200
Springfield, MO 65804
417-887-4000
Haen, Chas J GP
1443 N. Robberson #1001
Springfield, MO 65802
417-869-7337
Hall, David W FP
1721 E. Meadowview
Springfield, MO 65804
417-883-3758
Hall, Durward G GS
2442 S Fremont
Springfield, MO 65804
417-881-2515
Hamburg, Frederic L PD
1000 E. Primrose Suite 560
Springfield, MO 65807
417-882-1600
Hanan, Ernest B PTH
724 East Kingsbury
Springfield, MO 65807
417-883-0922
Hanss, Armand W IM
642 S Mission
Springfield, MO 65804
417-869-3774
Hardman, William A GS
3525 S. National
Springfield, MO 65807
417-887-7479
Hargis, James L PUD
3231 South National
Springfield, MO 65807
417-883-7422
Harmon, Ben C ORS
3231 South National
Springfield, MO 65807
417-883-7422
Harris, Hugh G ORS
1900 S. National Suite 1950
Springfield, MO 65804
417-882-1900
Harvey, Harold D PS
2030 S National
Springfield, MO 65804
417-881-9214
Harvey, Judith E OPH
1443 N. Robberson Suite 501
Springfield, MO 65802
417-865-2227
Hasler, Galen R ONC
3231 South National
Springfield, MO 65807
417-883-7422
Hawkins, Calvin D R
1675-J East Seminole
Springfield, MO 65804
417-881-5033
Hayes, Stanley P IM
3231 South National
Springfield, MO 65807
417-883-7422
Heinz, George PUD
1900 S National
Springfield, MO 65804
417-887-4000
Hellam, Duane C IM
Fremont Medical Building
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771
Henry, Roy A PD
3231 South National
Springfield, MO 65807
417-883-7422
Herfkens, Kenneth D IM
1900 S National
Springfield, MO 65804
417-887-4000
Hill, Randy C OBG
1965 S. Fremont, Suite 1800
Springfield, MO 65804
417-887-7887
Hills, Joe E CD
1001 E. Primrose
Springfield, MO 65807
417-885-7200
Hinds, Paul A OBG
Rt 5 Box 532
Springfield, MO 65803
417-833-3015
Hoeman, Michael D IM
3443 S. National
Springfield, MO 65807
417-883-3443
Holand, Roy W ORS
1001 E. Primrose
Springfield, MO 65807
314-885-7170
Holland, Robt D PD
3231 South National
Springfield, MO 65807
417-883-7422
Hollis, Richard W AN
1900 South National #1800
Springfield, MO 65804
417-887-6323
Holmes, Danl E IM
3443 S. National
Springfield, MO 65807
417-883-3443
Holmes, David R OBG
3259 E. Sunshine Ste N
Springfield, MO 65804
417-881-1337
*Honderick, Richard T FP
1965 S. Fremont #1900
Springfield, MO 65804
417-883-0023
Hoos, Gary L ONC
1900 S. National Ste 3600
Sprinfield, MO 65804
417-882-4880
Horton, Bill G OPH
1900 S. National
Springfield, MO 65804
417-887-5400
Horton, James D ORS
1235 E Delmar
Springfield, MO 65804
417-869-3041
Hover, Alexander R GE
3231 South National
Springfield, MO 65807
417-883-7422
Howitt, William J GP
440 South Market
Springfield, MO 65806
314-865-5581
Hubbard, Sally L FP
901 S. National
Smsu Student Clinic
Springfield, MO 65804
417-836-5540
Huewe, Douglas A D
1900 S. National
Suite 3800 NW
Springfield, MO 65804
417-882-2277
Hufft, Robert E Jr ORS
1900 S. National
#1950
Springfield, MO 65804
417-882-1900
Hulstra, Johannes F P
3231 South National
Springfield, MO 65807
417-883-7422
Husted, Frederick C IM
1001 E. Primrose
Springfield, MO 65807
417-885-7150
Ippensen, John H OTO
1900 South National
Ste 2300
Springfield, MO 65804
417-887-5750
Ivy, H. B. OPH
435 E. Seminole
Springfield, MO 65807
417-831-3392
Jahanian, Iraj GP
1949 E. Sunshine Corp Centre
Bldg 2, Ste.111
Springfield, MO 65804
417-887-3006
Jameson, James E ORS
4026 E. Catalpa
Springfield, MO 65804
417-883-6167
Janeczko, Gregory F AN
1900 South National #1800
Springfield, MO 65804
417-887-6323
Jobe, Chas L IM
3231 South National
Springfield, MO 65807
417-883-7422
Johnson, Fritz M TS
1965 S. Fremont Ave.
Suite 1200
Springfield, MO 65804
417-887-5220
Johnson, Jeffrey R U
1965 S. Fremont Suite 3100
Springfield, MO 65804
417-882-0300
Johnson, Jos C Jr OBG
3231 S. National
Springfield, MO 65807
417-883-7422
Johnson, M. Nanette AN
3660 S. National Ste. 350
Springfield, MO 65807
417-881-0750
Johnson, Warford B Sr IM
2244 East Edgewood
Springfield, MO 65804
417-881-1690

---

* Doctor of osteopathy.

Johnson, Wm F U
1965 S. Fremont Suite 3100
Springfield, MO 65804
417-882-0300

Johnston, Jos L OBG
1900 S. National
Suite 2960 NW
Springfield, MO 65804
417-887-5500

Jones, Harold L IM
1001 E. Primrose
Springfield, MO 65807
417-885-7150

Jones, Laird E P
440 S. Market
Springfield, MO 65806
417-865-5581

Kelling, E. Collyer DR
1675-J East Seminole
Springfield, MO 65804
417-881-5033

Kelly, James C PD
1900 S National
Suite 3200
Springfield, MO 65804
417-887-0413

Kensel, Robert S EM
1423 N. Jefferson
Springfield, MO 65802
417-836-3193

Kenyon, Dennis D EM
1423 N. Jefferson
Springfield, MO 65802
417-836-3193

Key, James S D
North Wing Suite 3900
1900 S National
Springfield, MO 65804
417-882-2194

Khalil, Tamer G IM
3259-C Sunshine
Springfield, MO 65804
417-883-6651

Kinder, Doyle O FP
3231 South National
Springfield, MO 65807
417-883-7422

Kipfer, Robt E GE
1001 Primrose
Springfield, MO 65807
417-885-7250

Kissell, Richard W IM
3443 S. National
Springfield, MO 65807
417-883-3443

Klingner, Geo M Jr FP
1443 N. Robberson, #1001
Springfield, MO 65802
417-869-7337

Klingner, Geo M IM
P. O. Box 35
Turners, MO 65765
417-881-3602

Klinkerfuss, Geo H N
1000 E. Primrose Suite 310
Springfield, MO 65807
417-886-0005

Knabb, Henry F Jr GP
Rt 16 Box 140
Springfield, MO 65807
417-865-1464

Knabb, Kenneth E FP
1443 N. Robberson #700
Springfield, MO 65802
417-836-8100

Knowlton, Norman P III IM
Fremont Medical Building
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771

Kobbermann, Kobby J OBG
1965 S. Fremont Suite 2600
Springfield, MO 65804
417-882-2919

Kolze, Vernon W GS
803 Medical Tower
1443 N Robberson Ave.
Springfield, MO 65802
417-865-1651

Krahn, Henry C R
208 Medical Tower
1443 N. Robberson
Springfield, MO 65802
417-865-5521

Krueckeberg, Steven T DR
1443 North Robberson Ste 208
Springfield, MO 65802
417-865-5521

Lamb, William R P
440 S. Market
Springfield, MO 65806
417-869-4833

Lampert, Benjamin A AN
3525 S. National #110
Springfield, Mo 65807
417-882-4605

LaFerriere, Keith A OTO
1900 S. National #2300
Springfield, MO 65804
417-887-5750

*Legg, Thomas J GP
1308 N. Glenstone
Springfield, MO 65802
417-869-7006

Lewis, Noel R PTH
207 Professional Bldg.
Springfield, MO 65806
417-865-6656

LeFevre, Philip J P
1965 S. Fremont Suite 3000
Springfield, MO 65804
417-883-5141

Lin, Chi hsi N
3259 K East Sunshine
Springfield, MO 65804
417-883-8796

Litton, Lyle D DR
208 Medical Tower
1443 N Robberson
Springfield, MO 65802
417-865-5521

Lockhart, Chas E GS
609 Cherry St
105 Professional Bld
Springfield, MO 65806
417-869-9139

Loeb, Richard H IM
3231 South National
Springfield, MO 65807
417-883-7422

*Logston, David G AN
3660 S. National Ste. 350
Springfield, MO 65807
417-881-0750

Lorenc, Ernest D
1900 S. National
Suite 3800 NW
Springfield, MO 65804
417-882-2277

Lowe, H. Arch Jr GS
1443 N Robberson #303
Springfield, MO 65802
417-866-7249

Ludwig, Scott C EM
1235 E. Cherokee
Springfield, MO 65804
417-885-2115

Lundman, Hugh GS
Fremont Medical Bldg.
1965 S. Fremont #1300
Springfield, MO 65804
417-882-4800

Lurie, Harold H IM
3443 S. National
Springfield, MO 65807
417-883-3443

Luzecky, Michael H N
1965 S. Fremont #2800
Springfield, MO 65804
417-881-5590

Lynch, Thos W D
1900 S. National #3100
Springfield, MO 65804
417-883-0500

Lyons, Daniel F IM
1965 S. Fremont #3200
Springfield, MO 65804
417-887-2050

Maher, Robt W GS
924 E. Linwood Dr.
Springfield, MO 65807
417-862-1680

*Mahoney, Michael C GP
626 E. Battlefield
Springfield, MO 65807
417-881-2180

Major, Troy E D
1000 E. Primrose #340
Springfield, MO 65807
417-881-7220

Mantell, Jack M IM
1001 E. Primrose
Springfield, MO 65807
417-885-7270

Maple, Francis M GE
3231 South National
Springfield, MO 65807
417-883-7422

Mayus, Joseph L IM
1900 S. National Suite 2200
Springfield, MO 65804
417-887-4000

McAfee, Gordon P
3046 S. Delaware #L
Springfield, MO 65804
417-887-7780

McAlhany, Howard J NS
1643 East Catalpa
Springfield, MO 65804
417-865-4578

McCorcle, Marcus D OBG
1000 E. Primrose, Suite 270
Springfield, MO 65807
417-882-6900

McCray, Glen M CHP
1324 S. Raintree Place
Springfield, MO 65804

McKinney, Daniel C PD
3525 South National #107
Springfield, MO 65807
417-887-0711

McLaughlin, Richard D OBG
1000 E. Primrose, Suite 270
Springfield, MO 65807
417-882-6900

McLaurin, Robert L Jr. TR
1423 N. Jefferson Ave.
Springfield, MO 65802
417-836-3436

McQueary, Frederick G ORS
1900 S National
Suite 1980 NW
Springfield, MO 65804
417-882-6040

Mechlin, Norman J IM
Fremont Medical Building
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771

Mehlhorn, Gary L OPH
1965 S. Fremont Suite 2000
Springfield, MO 65804
417-887-1965

Meldi, Dominic M IM
3231 South National
Springfield, MO 65807
417-883-7422

Menchetti, Donald E FP
1630 N Jefferson Suite 3
Springfield, MO 65803
417-866-6619

Mendez, Maria A P
1965 S. Fremont Ste 1400
Springfield, MO 65804
417-881-8375

Mentgen, Carl N GE
1001 E. Primrose
Springfield, MO 65804
417-885-7250

Meyer, John W PD
3014G E Sunshine
Springfield, MO 65804
417-887-1504

Michael, Harvey R ORS
3231 S. National
Springfield, MO 65807
417-883-7422

Michaels, Robert H OPH
1900 S National
Suite 1400
Springfield, MO 65804
417-887-5400

Mihalevich, John A Jr IM
1900 S. National #3400
Springfield, MO 65804
417-887-7002

Miles, Wayne B A
1200 East Woodhurst
Bldg. K Ste 300
Springfield, MO 65804
417-887-1188

Miller, David D GS
1900 S. National Suite 2900
Springfield, MO 65804
417-887-4776

Milne, Jay L U
Suite 2700
1900 S. National
Springfield, MO 65804
417-887-2090

Mizell, Myron W CD
1965 S. Fremont Suite 2200
Springfield, MO 65804
417-882-1984

Monroe, Phillip L FP
1443 N. Robberson Suite 700
Springfield, MO 65802
417-836-8100

Moore, De Armond OM
2306 Meadowview
Springfield, MO 65804
417-883-3572

Morgan, John L DR
3525 S. National
Springfield, MO 65807
417-887-8790

Morrow, N. Eugene D
1900 S. National Ave.
Suite 3800 NW
Springfield, MO 65804
417-882-2277

Morton, Paul C IM
1608 Arlington Road
Springfield, MO 65807
417-881-7011

Moseley, F. Thomas GS
Fremont Medical Bldg.
1965 S. Fremont #1300
Springfield, MO 65804
417-882-4800

Muegge, F. David IM
1000 E. Primrose #540
Springfield, MO 65807
417-882-7252

---

* Doctor of osteopathy.

Neblett, Lewis M ENT
3231 S. National
Springfield, MO 65807
417-883-7422
Nelson, David E DR
Suite 208
Medical Tower
Springfield, MO 65802
417-865-5521
Nelson, Donald C IM
1900 S. National Suite 2200
Springfield, MO 65804
417-887-4000
Neu, Leo T III OPH
2900 S. Fremont
Springfield, MO 65804
417-887-3900
Neu, Leo T Jr HEM
3231 S. National
Springfield, MO 65807
417-883-7422
Noble, Colleen I PD
Cox Medical Center South
3801 S. National
Springfield, MO 65807
417-885-6000
Noble, James S PD
3057 S. White Oak Dr.
Springfield, MO 65804
417-882-4828
Olson, E. Rule OPH
1900 S National Ste 1400
Springfield, MO 65804
417-887-5400
Olson, Robert J DR
3050 S. National #106
Springfield, MO 65804
417-883-8223
Overend, Don S PD
3231 South National
Springfield, MO 65807
417-883-7422
Pacheco, Jose M R
5657 S. Roanoke
Springfield, MO 65804
417-887-6414
Palcheff, Chris L PD
1722-SS S. Glenstone
Springfield, MO 65804
417-881-6300
Park, Bert E NS
1900 National Suite 2980
Springfield, MO 65804
417-887-6880
Park, Wm I Jr IM
1470 S. Virginia
Springfield, MO 65807
417-866-6614
Parsons, Clyde W III ORS
1900 S. National #1980 NW
Springfield, MO 65804
417-882-6040
Penninger, William H ORS
2246 Claiborne
Springfield, MO 65804
417-881-5646
Peterson, Craig A OPH
3231 S. National
Springfield, MO 65807
417-883-7422
Peterson, Stanley S IM
3231 South National
Springfield, MO 65807
417-883-7422
Piker, K. Dewayne FP
905 Medical Tower
Springfield, MO 65802
417-836-3555
Pinckley, James N CD
3231 South National
Springfield, MO 65807
417-883-7422
Podrecca, Guido I PTH
2925 Chambery
Springfield, MO 65804
417-881-1957
Powell, Edwin M U
1965 S. Fremont Suite 3100
Springfield, MO 65804
417-882-0300
Pratcr, Bill G OPH
1965 S. Fremont Suite 2000
Springfield, MO 65804
417-887-1965
Presley, Jimmy C FP
1301 S. Glenstone
Springfield, MO 65804
417-831-7399
Previti, Vincent GS
2030 S. National
Springfield, MO 65804
417-881-3428
Pruett, Paul L OBG
National Ave. Med. Bldg.
1900 S National-2960NW
Springfield, MO 65804
417-887-5500

Quinn, Paul S PTH
3801 S. National
Springfield, MO 65807
417-885-6094
Quinn, Rodney D N
1000 E. Primrose #310
Springfield, MO 65807
417-886-0005
Paborar, Arteso C CLP
207 Professional Bldg
Springfield, MO 65806
417-865-6656
Rainwater, Elmer H OPH
3631 Whitehall Dr.
Springfield, MO 65804
417-883-0446
Randolph, Kerry A IM
3443 S. National
Springfield, MO 65807
417-883-3443
Feyes, Efraim FP
3405 Mt. Vernon St.
Springfield, MO 65802
417-865-5667
Reyes, Lirio M PD
3525 S. National #204
Springfield, MO 65807
417-883-2311
Rice, Kathleen G PD
St. John's Respitory Therapy
1235 E. Cherokee
Springfield, MO 65804
417-885-3106
Rising, Dean R PD
3231 South National
Springfield, MO 65807
417-883-7422
Robinson, Gary L OBG
1000 E. Primrose, Suite 200
Springfield, MO 65807
417-887-0966
Rogers, James D CD
1965 S. Fremont Ave.
Suite 1200
Springfield, MO 65804
417-887-5220
Pogers, James T IM
1900 S. National Suite 3400
Springfield, MO 65804
417-887-7002
Rogers, Joseph D TR
1900 S. National
Suite 1960 NW
Springfield, MO 65804
417-882-9960
Rosen, William K FP
1443 N. Robberson Ste 700
Springfield, MO 65802
417-836-8100
Ruff, Paul G CD
3231 South National
Springfield, MO 65807
417-883-7422
Russell, Earl D GP
1503 S Glenstone
Springfield, MO 65804
417-881-8593
Ryan, Robert A GP
309 Ashley Way Gl
Pharr, TX 78577
Sammon, T James PD
3014J E. Sunshine
Springfield, MO 65804
417-887-0727
Sauer, James M DR
1675-J E. Seminole
Springfield, MO 65804
417-881-5033
Sauer, Paul E CD
1000 E. Primrose Suite 330
Springfield, MO 65807
417-887-6866
Sawicki, Edward H FP
626 E. Battlefield
Springfield, MO 65807
417-881-2180
*Scanlon, Robert C II U
Morton Building
1630 N. Jefferson
Springfield, MO 65803
417-865-0993
Schaeffer, Edward M OPH
2900 S Fremont
Springfield, MO 65804
417-887-3900
Schneider, J. Michael AN
1900 S. National Ste. 1800
Springfield, MO 65804
417-887-6323
Schoonmaker, Gene D
3231 S. National
Springfield, MO 65807
417-883-7422
Schoonmaker, Jeanette P
440 S. Market
c/oPark Central Hosp
Springfield, MO 65806
417-869-4833

Schreiber, Norman J GP
504 Longmeadow Cr.
St. Charles, IL 60174
Schroff, Carle E FP
1630 N Jefferson St
Springfield, MO 65803
417-866-6619
Schwartz, Eugene J PD
1315 E. Loren
Springfield, MO 65804
417-866-1464
Schwartz, Howard R RHU
1001 E. Primrose
Springfield, MO 65807
417-885-7130
Scott, Robert W IM
Fremont Medical Building
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771
Seagrave, Richard A ORS
3231 South National
Springfield, MO 65807
417-883-7422
Seale, Stuart A FP
1000 E. Primrose Suite 120
Springfield, MO 65807
417-882-8820
Shackter, Bruce I ORS
1001 E. Primrose
Springfield, MO 65807
417-885-7170
Shaeffer, James T ORS
1900 S. National
North Wing Suite 1980
Springfield, MO 65804
417-882-6040
Shane, Ramon A TS
1965 South Fremont Ave.
Suite 1200
Springfield, MO 65804
417-887-5220
Shealy, C. Norman NS
3525 S. National Ste 207
Springfield, MO 65807
417-882-0850
Shelton, R. Wayne OPH
3231 South National
Springfield, MO 65807
417-883-7422
Shields, Lawrence S FP
SMSC Taylor Health Ctr
901 South National
Springfield, MO 65804
417-836-5540
Silsby, Harry D IM
1369 South Fairway Ave
Springfield, MO 65804
417-881-4756
Simpson, Albert P FP
1636 S. Glenstone
Springfield, MO 65804
417-881-6140
Slack, Melinda R NPM
1235 E. Cherokee
Springfield, MO 65804
417-885-3219
Snead, William H ORS
1900 S. National
North Wing - Suite 1980
Springfield, MO 65804
417-882-6040
Snow, Emasue P
2030 S. National
Springfield, MO 65804
417-887-1192
Snow, Jon F OTO
1000 E. Primrose #360
Springfield, MO 65807
417-887-9900
Snyder, Christopher H Jr PD
1000 E. Primrose Suite 560
Springfield, MO 65807
417-882-1600
Spade, Diana J AN
1900 South National #1800
Springfield, MO 65804
417-887-6323
Spalding, David L OPH
1900 S. National
Ste. 1400
Springfield, MO 65804
417-887-5400
Sponenberg, Don D PD
3231 S. National
Springfield, MO 65807
417-883-7422
Stamatis, John J TS
1965 S. Fremont Ave.
Suite 1200
Springfield, MO 65804
417-887-5220
Stewart, Robt B OPH
1949 E. Sunshine #4-100
Springfield, MO 65804
417-887-6700

---

* Doctor of osteopathy.

Stewart, Wendell FP
609 E Cherry
219 Professional Bld
Springfield, MO 65806
417-866-0108

Stine, Gordon W FP
700 Medical Tower
1443 N. Robberson
Springfield, MO 65802
417-836-8100

Stufflebam, Robt E IM
1900 S National
Suite 3400
Springfield, MO 65804
417-887-7002

Stuppy, Mark S OBG
1000 E. Primrose Suite 200
Springfield, MO 65807
417-887-0966

Sturtevant, Harwood N R
3935 E. Primrose
Springfield, MO 65807
417-881-7001

Sullivan, Dan T DR
3525 S. National #110
Springfield, MO 65807
417-887-8790

Sullivan, John A DR
1443 N. Robberson Suite 208
Springfield, MO 65802
417-865-5521

Sundstrom, Frank D ORS
3525 S. National #210
Springfield, MO 65807
417-882-8437

Suva, Morfeo M IM
3525 S. National Ste. 111
Springfield, MO 65807
417-887-5519

Sweeney, Thos P DR
1675-J East Seminole
Springfield, MO 65804
417-881-5033

Sweet, Robert A END
1965 S. Fremont
Suite 3200
Springfield, MO 65804
417-887-2050

Tarrasch, Ernest L OPH
1636 S Glenstone
Springfield, MO 65804
417-881-4966

Taylor, William K IM
3231 S. National Ave.
Springfield, MO 65807
417-883-7422

Taylor, Wm E GP
1701 Ranch Drive
Springfield, MO 65804
417-881-2022

Tendai, Mark M OBG
505 Medical Tower
1443 N. Robberson
Springfield, MO 65802
417-866-1988

Terry, James F U
1965 S. Fremont Suite 3100
Springfield, MO 65804
417-882-0300

Thomasson, David D PD
508 Medical Tower
1443 North Robberson
Springfield, MO 65802
417-862-6606

Tillman, Walter W AN
1220 E. Loren
Springfield, MO 65804
417-862-1622

Tombridge, Thos L PTH
1235 E Cherokee
St John s Hospital
Springfield, MO 65804
417-885-2000

Trotter, W. Yates IM
1900 S. National Ste 2200
Springfield, MO 65804
417-887-4000

Troxil, Elizabeth B PM
P.O. Box 4807
Springfield, MO 65808
417-864-6663

Truitt, William R EM
St. Johns Regional Health Ct
1235 E. Cherokee
Springfield, MO 65804
417-885-2115

Tsang, John L NS
930 E. Primrose
Springfield, MO 65807

Turner, Glenn O IM
Fremont Medical Building
1965 S. Fremont #3500
Springfield, MO 65804
417-887-1771

Turner, William F FP
SMSU Taylor Health Center
901 South National
Springfield, MO 65804
417-836-5540

Vale, Janie R OM
3231 S. National Ave.
Springfield, MO 65807
417-883-7422

Van Osdol, Kelvin D CD
1965 S. Fremont #2200
Springfield, MO 65804
417-882-1984

Vidoloff, John C PM
1443 North Robberson Ste 205
Springfield, MO 65802
417-836-3421

Wachter, Ronald M PTH
1000 E. Primrose #130
Springfield, MO 65807
417-885-6021

Waddell, Kenneth E OBC
3231 S. National
Springfield, MO 65807
417-883-7422

Wade, Larry A P
1900 S. National Suite 3300
Springfield, MO 65804
417-887-1984

Wakeman, J Newton Sr GS
1402 E. Meadowmere
Springfield, MO 65804
417-866-2277

Wakeman, Newt Jr ORS
1900 S National
Ste. 1700
Springfield, MO 65804
417-883-9300

Walker, Gary K OBG
1000 E. Primrose, Suite 270
Springfield, MO 65807
417-882-6900

Walker, Melvin O JR IM
1900 S. National Ste. 2200
Springfield, MO 65804
417-887-4000

Walker, William M OBG
1000 E. Primrose, Suite 270
Springfield, MO 65807
417-882-6900

Wall, Norman R PS
1443 N. Robberson
Ste. 901
Springfield, MO 65802
417-862-9556

Wartuck, Donald K IM
1900 S. National
Suite 3400
Springfield, MO 65804
417-887-7002

Warres, Herbert L U
2614 S. Inglewood
Springfield, MO 65804
417-883-3914

Washburn, Kenneth B PM
1949 E. Sunshine #4-408
Corp Centre Bldg 4
Springfield, MO 65804
417-883-1535

Waterfield, Jim R IM
3231 South National
Springfield, MO 65807
417-883-7422

Waxman, Joel E OTO
3231 S. National
Springfield, MO 65807
417-883-7422

Wheeler, Jeffery EM
Cox North 1423 N. Jefferson
Springfield, MO 65802
417-836-3193

White, R Ned OBG
301 Medical Tower
1443 N. Robberson
Springfield, MO 65802
417-831-1512

Whitlock, C Courtney NS
405 Medical Tower
Springfield, MO 65802
417-862-0747

Wible, Jerry C OTO
3231 S. National
Springfield, MO 65807
417-883-7422

Wiesemeyer, Dan L AN
Surgery Ctr of Springfield
1350 E. Woodhurst
Springfield, MO 65804
417-887-5243

Williams, John W IV OBG
1000 E. Primrose, Suite 200
Springfield, MO 65807
417-887-0966

Wilson, Roy E P
1900 S. National
Ste. 3300
Springfield, MO 65804
417-887-6538

*Wilson, W. Timothy FP
1965 S. Fremont Suite 1900
Springfield, MO 65804
417-883-0023

Winsky, Arlen D PS
1900 S. National Ste 2970
Springfield, MO 65804
417-887-8870

Wittmer, Marc R GS
1001 E. Primrose
Springfield, MO 65807
417-885-7240

Wittmer, Saml C GS
1443 N. Robberson
705 Medical Tower
Springfield, MO 65802
417-862-0533

Wolf, Marion L ORS
3231 South National
Springfield, MO 65807
417-883-7422

Wolfe, James B OTO
1000 E. Primrose Ste 360
Springfield, MO 65807
417-887-9900

Wolfe, John E IM
1001 E. Primrose
Springfield, MO 65807
417-885-7160

Wong, Geo N
2030 S National
Springfield, MO 65804
417-883-2514

Wooldridge, Wilfred E D
1126 E. Stanford
Springfield, MO 65807
417-881-8063

Wooten, Michael B GE
3231 South National
Springfield, MO 65807
417-883-7422

Worth, Eugene R AN
1900 S. National #1800
Springfield, MO 65804
417-887-6323

Wright, Andy J OBG
3231 South National
Springfield, MO 65807
417-883-7422

Wyrsch, Leo M OBG
National Ave. Med. Bldg.
1900 S National #2960NW
Springfield, MO 65804
417-887-5500

Yancey, Daniel L ORS
1133 S. Weller
Springfield, MO 65804
417-869-1140

Zahn, Robt L PD
1900 S National Ste 1900
Springfield, MO 65804
417-887-8844

086—HENRY

Hughes, Shelby B GP
210 E Wilson
Clinton, MO 64735
816-885-4953

Jones, Edna M OS
Rt #2
Deepwater, MO 64740
816-885-5585

Kenney, Douglas R FP
Medical Bldg.
Hospital Dr.
Clinton, MO 64735
816-885-8141

King, Richard H GS
Hospital Drive
Medical Clinic
Clinton, MO 64735
816-885-8141

Miller, Harry G ORS
Wetzel Clinic
HWY 13 North
Clinton, MO 64735
816-885-8171

Scott, Kenneth F FP
Medical Building
Hospital Drive
Clinton, MO 64735
816-885-8141

Smith, Wm J GP
103 W. Colt St.
Windsor, MO 65360
816-647-3117

Weltscheff, Christo A GP
Rt 1
Lincoln, MO 65338
816-547-3642

Wetzel, Gus S GS
Wetzel Clinic Hwy. 13 N.
Clinton, MO 64735
816-885-8171

---

* Doctor of osteopathy.

094—HOWARD

Dean, Francis D GP
309 S. Main St.
Fayette, MO 65248
816-248-2261

Gengelbach, Richard W FP
Fayette Med. Clinic
Elm & Church Sts.
Fayette, MO 65248
816-248-2217

Leech, Maurice P GP
920 W. Davis
Fayette, MO 65248
816-248-2261

Marshall, William G FP
P. O. Box 77
Glasgow, MO 65254
816-338-2233

Shaw, Wm J GP
207 N. Main
Fayette, MO 65248
816-248-2282

098—METRO MED-GREATER KC

Aaron, Geo U
Truman Forest Med. Building
1515 W. Truman Rd #501
Independence, MO 64050
816-252-1900

Abdou, Nancy L HEM
Suite T101
6420 Prospect
Kansas City, MO 64132
816-363-4100

Abella, Bienvenido Z GS
416 Main
Belton, MO 64012

Abend, Melvin N PS
6724 Troost
#308
Kansas City, MO 64131
816-523-4010

Abercrombie, Keith J U
1010 Carondelet Dr
Kansas City, MO 64114
816-942-4243

Abrams, Bernard M N
Ste 400 Highlands Prof Tower
6724 Troost
Kansas City, MO 64131
816-444-4082

Adelman, Arthur GS
6724 Troost Suite 910
Kansas City, MO 64131
816-333-2000

Adelman, Bruce AN
1000 E. 50th St. Suite 340
Kansas City, MO 64110
816-333-7484

Adler, Federico ORS
6724 Troost Ave
#300
Kansas City, MO 64131
816-363-6500

Agee, Loren G FP
10000 Hemlock Dr.
Overland Park, KS 66212
913-941-0800

Ahmed, Iftekhar N
2900 Baltimore Suite 600
Kansas City, MO 64108
816-756-2651

Ahuja, Suraj P CD
Rockhill Cardiology Group
6650 Troost - Suite 106
Kansas City, MO 64131
816-444-7444

Akin, C D CD
1515 W. Truman Rd.
Independence, MO 64050
816-461-6837

Alberg, Marvin R OM
3525 N W 60th Terrace
Kansas City, MO 64151
816-741-5239

Alderman, Donald P AN
3221 W 83rd St
Shawnee Mission, KS 66206
913-341-7869

Alderman, Thos F GS
1010 Carondelet Suite 321
Kansas City, MO 64114
816-941-0044

Aldridge, John OBG
1734 E. 63 #509
Kansas City, MO 64110
816-444-2280

Alfie, Salomon CHP
7301 Mission Rd. #328
Shawnee Mission, KS 66208
816-362-1444

Ali, Mohammed E AN
17421 Medical Center Parkway
Independence, MO 64057
816-373-0263

Allebach, Hobart K PTH
3020 W. 84th Place
Shawnee Mission, KS 66206
816-361-2135

Alleman, Robert E GS
4400 Broadway Suite 312
Kansas City, MO 64111
314-756-2945

Allen, Arthur A II N
210 Foxhill Med. Bldg.
4601 W. 109th St.
Shawnee Mission, KS 66211
913-341-4030

Allen, Mark J GE
4320 Wornall Rd. Suite 332
Kansas City, MO 64111
816-561-2000

Allen, Robt E GS
332 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-931-2393

Allen, Thomas P IM
6724 Troost Suite 500
Kansas City, MO 64131
816-363-5662

Allphin, Barbara J PD
Childrens Mercy Hosp
24th & Gillham Rd
Kansas City, MO 64108
816-234-3054

Alsop, Webb S Jr. AN
3604 W 53rd Street
Shawnee Mission, KS 66205
913-262-1540

Altomare, Edward P AN
1030 W 65th St
Kansas City, MO 64113
816-444-8667

Ames, Mary B N
2318 Lovers Lane
St. Joseph, MO 64505

Amini, Jafar DR
2709 W. 119th St.
Shawnee Mission, KS 66209

Ammatelli, Francis J IM
412 Carondelet Med. Bldg.
1010 Carondelet Dr
Kansas City, MO 64114
816-942-8558

Amoury, Raymond A PDS
Childrens Mercy Hospita
24th & Gillham Rd
Kansas City, MO 64108
816-234-3575

Anderson, John V NPM
Children's Mercy Hosp.
24th and Gillham Rd
Kansas City, MO 64108
816-234-3593

Anderson, Raymond B PD
Children's Mercy Hospital
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3666

Anderson, Sue K NEP
2508 W. 71st St.
Prairie Village, KS 66208

Andes, Elizabeth A IM
1515 W. Truman Rd. Suite 302
Independence, MO 64050
816-836-8200

Andrus, Bailey C PD
3208 W. 81st Terrace
Leawood, KS 66206

Anthony, James P DR
3807 West 171st St
Stilwell, KS 66085
913-897-2149

Arbab, Ali A GS
Suite 109
6650 Troost
Kansas City, MO 64131
816-444-0905

Arms, Arnold V IM
11209 Granada
Shawnee Mission, KS 66211
913-491-3019

Arms, Richard A IM
Suite 1000
4240 Blue Ridge Blvd.
Kansas City, MO 64133
816-356-8877

Arnold, John D IM
5100 E 24th St
Kansas City, MO 64127
816-483-7117

Arnold, Lowry K PTH
101 Memorial Drive
St. Mary's Hosp.
Kansas City, MO 64108
816-753-5700

Arribas, Aurora I GP
1000 South 42nd Street
Blue Springs, MO 64015
816-229-1418

Arribas, Romeo F GS
1316 W. 40 Highway
Blue Springs, MO 64015
816-229-9125

Ashby, Jennifer D D
2900 Baltimore Suite 500
Kansas City, MO 64108
816-753-1900

Ashcraft, Keith W PDS
509 Broadway Med Bldg
4400 Broadway
Kansas City, MO 64111
816-931-5538

Ashley, Lillard G Jr. CD
1010 Carondelet Dr.
Suite #421
Kansas City, MO 64114
816-941-0011

Atwell, Floyd C OBG
1216 W. 68th Terrace
Kansas City, MO 64113
816-333-0211

Austin, George M U
1515 W. Truman Rd.
Suite 404
Independence, MO 64050
816-836-8831

Averill, Keith H CD
1010 Carondelet Drive
Suite 110
Kansas City, MO 64114
816-942-4880

Baer, Alvin J OPH
5800 Howe Dr.
Shawnee Mission, KS 66205
913-362-3560

Baker, Philip J FP
9205 E. 40 Highway
Independence, MO 64055
816-737-1505

Ballard, V. Bryce IM
6618 Rainbow Rd.
Shawnee Mission, KS 66208

Bankuti, Ferenc R
T209 Research Med Off Bldg
6420 Prospect
Kansas City, MO 64132
816-523-2400

Barber, Georgory B GE
2900 Baltimore Suite 620
Kansas City, MO 64108
816-756-0595

Bare, Chester I Jr. PD
Raytown Clinic
9406 E. 63rd
Kansas City, MO 64133
816-356-1060

Barelli, Pat A OTO
105 Penn Park
2928 Baltimore
Kansas City, MO 64108
816-561-4423

Barker, A. Paul EM
219 E. 46th St. Apt. 1
Kansas City, MO 64112
314-753-7202

Barloon, James H OBG
240 Rockhill Med. Bldg.
6700 Troost
Kansas City, MO 64131
816-333-5000

Barnard, John L Jr. ORS
4315 Rockhill Rd.
Kansas City, MO 64110
816-931-2406

Barnett, Gordon P GP
6568 High Dr
Shawnee Mission, KS 66208
913-362-8226

Barr, Glenn A GS
520 E. 63rd St.
Kansas City, MO 64110
816-361-2800

Barr, W. Kent CD
2929 Baltimore, Suite 415
Kansas City, MO 64108
816-756-0695

Barry, Wm B OTO
422 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-931-3296

Barter, Bruce PD
9150 East 41st Terr.
Kansas City, MO 64133
816-356-5000

Barton, Jean C PD
3429 Coleman Rd.
Kansas City, MO 64111
816-561-2180

Basantz, Fernando V FP
Hickman Mills Clinic Inc.
11201 Colorado
Kansas City, MO 64137
816-763-5200

---

* Doctor of osteopathy.

Baska, Richard E CHN
Childrens Mercy Hosp
Kansas City, MO 64108
816-234-3090
Bass, Walter R OPH
9500 E 63rd St Suite 109
Raytown, MO 64133
816-353-7331
Batts, Barbara A OBG
1010 Carondelet Dr.
Suite 328
Kansas City, MO 64114
816-941-0700
Bauer, Lafe W AN
4818 W 80th
Prairie Village, KS 66208
913-753-5700
Baum, Frank E OBG
11706 Washington
Kansas City, MO 64114
816-942-0426
Bay, Merrill R OM
301 S. Woods Chapel Rd
Blue Springs, MO 64015
816-228-5510
Bayer, William L HEM
4040 Main
Kansas City, MO 64111
816-753-4040
Beall, McPherson S Jr. ORS
1010 Carondelet Dr. #426
Kansas City, MO 64114
816-941-0200
Beatty, Eugene C PTH
Children s Mercy Hospital
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3234
Beatty, Nina D AN
Truman Medical Ctr
2301 Holmes
Kansas City, MO 64108
816-556-3218
Beatty, Robert M NS
Suite 328 4320 Wornall Rd.
Kansas City, MO 64111
816-931-1150
Beauchamp, Gary D CD
Suite 40 11 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-5510
Beck, Calvin E U
300 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-561-7612
Becker, Paul A CD
Suite T509
6420 Prospect Ave.
Kansas City, MO 64132
816-523-4525
Becker, Rolfe A OPH
804 Highlands Prof Tower
6724 Troost Ave.
Kansas City, MO 64131
816-363-3363
Beeks, John W OM
720 Oak Street
Kansas City, MO 64106
816-842-1146
Behrends, Steven H GS
1010 Carondelet
Suite 301
Kansas City, MO 64114
816-942-8250
Bell, Hubert H CD
Suite 40 II Medical Plaza
4320 Wornall Rd
Kansas City, MO 64111
815-531-5510
Bell, Malinda H EM
5921 W. 61st St.
Shawnee Mission, KS 66202
913-262-3511
Bell, Wm F FP
615 West 3rd Street
Lee's Summit, MO 64063
816-524-3799
Beller, Thomas A PUD
6420 Prospect
Suite T303
Kansas City, MO 64132
816-333-1919
Bennett, Danny L PS
4177 Broadway
Kansas City, MO 64111
816-561-1414
Bennett, James D IM
4315 W. 111th Terrace
Shawnee Mission, KS 66211
816-361-3500
Benoit, Hector W TS
101 Memorial Dr.
Kansas City, MO 64108
816-561-6510
Benson, William F ORS
720 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-753-5102
Berry, John M D
Suite 320 8800 W. 75th St.
Shawnee Mission, KS 66204
816-262-3288
Berry, Maxwell G IM
440 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-753-3243
Bettinger, Irene E N
4320 Wornall Rd.
Suite 220
Kansas City, MO 64111
816-531-4510
Bever, Grant A OBG
Suite 201 600 NW Murray Rd.
Lee's Summit, MO 64063
816-524-5600
Biber, Robert J U
1515 W. Truman Rd. Suite 404
Independence, MO 64050
816-836-8831
Bickley, James E OBG
328 Carondelet Med. Bldg.
1010 Carondelet Dr
Kansas City, MO 64114
816-941-0700
Bidnick, Terrance A OM
Western Elect. Med. Dept
777 N. Blue Parkway
Lee s Summit, MO 64063
816-524-3442
Bidwell, Robt E P
4320 Wornall Rd Ste 704
Kansas City, MO 64111
816-561-2524
Biery, Richard M PH
K C Mo Health Dept
414 E 12th St
Kansas City, MO 64106
816-274-1381
Biggs, Alfred D Jr. IM
Suite T101
6420 Prospect
Kansas City, MO 64132
816-363-4100
Biggs, Harry L GP
RR2 Box 545
Galena, MO 65656
Bills, Marvin L N
3309 W 68th St
Shawnee Mission, KS 66208
913-362-8184
Binda, Robert E AN
Anesthesia Assoc of KC, Inc
6400 Prospect Suite 138
Kansas City, MO 64132
816-444-1139
Birenboim, Nancy IM
1734 East 63rd St.
Kansas City, MO 64110
816-444-4806
Bixler, Daniel K PD
2411 Holmes #4
Kansas City, MO 64108
816-531-8826
Black, Don A IM
Suite T101
6420 Prospect
Kansas City, MO 64132
816-363-4100
Black, Thomas C OPH
1010 Carondelet Dr
Suite 416
Kansas City, MO 64114
816-942-8555
Blim, Richard D PD
206 Broadway Med. Bldg.
4400 Broadway
Kansas City, MO 64111
816-561-8100
Bode, Eugene T AN
Suite 200 8900 Ward Parkway
Kansas City, MO 64114
816-363-5652
Bodenhausen, Gary E FP
104 N. 7th Highway
Blue Springs, MO 64015
816-229-8880
Bogart, Douglas B CD
415 Penn Park
2929 Baltimore
Kansas City, MO 64108
816-756-0695
Bordy, Marvin D PD
601 E 63rd St Suite 406
Kansas City, MO 64110
816-363-6118
Bortnick, Eugene MFS
6724 Troost Ave Ste 200
Kansas City, MO 64131
816-333-6996
Botwin, Arnold E GS
502 W. 75th
Kansas City, MO 64114
Bower, James S PUD
Suite T303 6420 Prospect
Kansas City, MO 64132
816-333-1919
Bowlin, Steven K IM
Suite T101 6420 Prospect
Kansas City, MO 64132
816-765-6723
Bowser, John F R
22 Esmeralda Place
Hot Springs, AR 71909
816-561-3991
Boyd, Dorothy J IM
7110 E. 131st
Grandview, MO 64030
816-474-4920
Boyd, George K IM
4320 Wornall Rd
Kansas City, MO 64111
816-931-1166
Boyer, Philip A GER
825 W. 101st Terrace
Kansas City, MO 64114
Boylan, Peter C ORS
Rockhill Medical Plaza North
Suite 103 6650 Troost
Kansas City, MO 64131
816-444-4664
Braby, Howard H OBG
1515 W Truman Rd Ste 30
Independence, MO 64050
816-836-4200
Bradford, John F OPH
124 Medical Plaza
4320 Wornall
Kansas City, MO 64111
816-931-4840
Bradley, James K IM
2929 Baltimore Suite 545
Kansas City, MO 64108
816-561-6277
Brand, Stanley N GE
710 Highland Prof Tower
6724 Troost
Kansas City, MO 64131
816-333-6000
Braverman, Abe E IM
Suite 201 6650 Troost
Kansas City, MO 64131
816-363-7710
Brewer, Joseph H ID
Suite 208 4320 Wornall
Kansas City, MO 64111
816-531-0552
Brick, Jeffrey M OPH
504 Highlands Prof. Tower
6724 Troost
Kansas City, MO 64131
816-333-5515
Brock, Arthur L GE
1515 West Truman Rd. #403
Independence, MO 64050
816-836-1616
Brodine, William N IM
Suite T509 - 6420 Prospect
Kansas City, MO 64132
816-523-4525
Brodkey, Mark J U
T515 Research Tower Bldg.
6420 Prospect
Kansas City, MO 64132
816-333-6403
Brook, Charles J PUD
6420 Prospect
Suite T303
Kansas City, MO 64132
816-333-1919
Brothers, Mary E GS
2727 Main St.
Kansas City, MO 64108
816-842-3480
Brower, Clyde L GP
18811 E. 78 Hwy
Independence, MO 64057
816-461-1387
Brown, Adrian J GP
12 East 63rd St
Kansas City, MO 64113
816-333-6286
Brown, Elwyn S AN
200 W. 115th St.
Kansas City, MO 64114
Brown, Frances S IM
10901 Winner Rd. #207
Independence, MO 64052
816-836-1437
Brown, Irwin S U
RR #1
La Cygne, KS 66040
913-757-4484
Brown, Menzie H R
2928 Main
Suite 340
Kansas City, MO 64108
816-756-1050
Brown, Robt S OBG
2929 Baltimore
200 Penn Park
Kansas City, MO 64108
816-561-9496

---

* Doctor of osteopathy.

Brown, Scott H IM
4617 Jefferson Apt. 404South
Kansas City, MO 64112
816-537-2747
Browne, Jon E ORS
6700 Troost #628
Kansas City, MO 64131
816-444-8300
Bruner, Robt E CHN
234 Clearview Dr.
Mt. Juliet, TN 37122
615-758-7436
Bryan, Wm H GS
3939 Prospect
Kansas City, MO 64130
816-861-2510
Bryant, T J IM
615 Highlands Prof Tower
6724 Troost
Kansas City, MO 64131
816-444-9348
Buchanan, Barbara N CHP
Suite 202 4400 Broadway
Kansas City, MO 64111
816-561-2025
Buchwach, Kenneth A OTO
4240 Blue Ridge Blvd.
Suite 434
Kansas City, MO 64133
816-358-7177
Buckner, Robt C OBG
328 Carondelet Med Bldg
1010 Carondelet Dr
Kansas City, MO 64114
816-941-0700
Budke, Harold A FP
1219 W. 66th Terrace
Kansas City, MO 64113
816-444-8065
Buie, Bruce R FP
11201 Colorado
Kansas City, MO 64137
816-763-5200
Buie, Steven E FP
5306 Harrison
Kansas City, MO 64110
816-333-1685
Bunting, Williston P OTO
1231 W 62nd St.
Kansas City, MO 64113
816-444-4310
Burry, Virgil F PD
Childrens Mercy Hosp
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3015
Butcher, Robert W IM
7924 Paseo St
Kansas City, MO 64131
816-333-0600
Butin, Richard E IM
6420 Prospect Suite T101
Kansas City, MO 64132
816-363-4100
Butt, Atta U P
4240 Blue Ridge Suite 215
Kansas City, MO 64133
816-333-0557
Butterfield, Mari Anne AN
618 Pinehurst
Lee's Summit, MO 64063
816-373-0263
Butterworth, Nelson S IM
725 W 49th Terrace
Kansas City, MO 64112
816-561-4499
Byars, Steven R OPH
6650 Troost Suite 310
Kansas City, MO 64131
816-333-1120
Cabanas, Justo J P
3806 W. 52nd Terr
Shawnee Mission, KS 66205
Caffrey, Raymond J PTH
1509 W. Truman Rd.
Independence, MO 64050
816-836-1686
Caldwell, John K FP
6700 Troost Suite 308
Kansas City, MO 64131
816-523-2399
Calhoun, Kirk A IM
1734 East 63rd St.
Kansas City, MO 64110
816-444-4806
Callaway, Jo J P
4320 Wornall
Kansas City, MO 64111
816-561-2524
Callaway, Lawrence A PTH
Laboratory Trinity Lutheran
31st & Wyandotte
Kansas City, MO 64108
816-753-4600
Callenbach, John C PD
Childrens Mercy Hospital
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3591
Calovich, Emery R IM
503 Plaza Pkwy Bldg.
4620 J. C. Nichols Pkwy
Kansas City, MO 64112
816-561-7288
Campbell, Frederick B CRS
4550 Warwick Apt. 1212
Kansas City, MO 64111
816-523-6985
Campbell, John G CRS
6420 Prospect
Suite T311
Kansas City, MO 64132
816-333-7565
Canent, Ramon V PDC
4320 Wornall Rd. #348
Kansas City, MO 64111
816-753-4414
Capps, Eugene C AN
7921 El Monte
Shawnee Mission, KS 66208
913-276-7901
Carlson, Hjalmar E U
2709 W. 66th St.
Shawnee Mission, KS 66208
816-362-2942
Carter, James E FP
7800 Paseo
Kansas City, MO 64131
816-523-3055
Caruso, Alfred A OBG
1020 E 75th Way
Kansas City, MO 64131
816-523-0300
Case, Wm F FPH
416 Carondelet Medical
1010 Carondelet Dr
Kansas City, MO 64114
816-942-8555
Casement, Brian A AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139
Cashman, John W PH
Suite T101
6420 Prospect
Kansas City, MO 64132
816-363-4100
Caughron, Michael R PTH
2316 E Meyer Blvd.
Kansas City, MO 64132
816-276-4151
Centner, Paul J GS
2727 Main St
Kansas City, MO 64108
816-842-3480
Chamberlin, John B IM
3813 N. Cherry Lane #202
Kansas City, MO 64116
816-453-5477
Chandler, Robt A PS
4177 Broadway
Kansas City, MO 64111
816-561-1414
Chandra, Mahesh IM
1515 W Truman Rd
Suite 301
Independence, MO 64050
816-836-8130
Chapman, David W FP
Suite 302
1515 W. Truman Rd.
Independence, MO 64050
816-836-8200
Charapata, Steven G AN
6400 Prospect Suite 138
Kansas City, MO 64132
816-444-1139
Charette, Richard P PD
9150 E. 41st Terr.
Kansas City, MO 64133
816-356-5000
Chaudhary, Mohammad A GE
440 Suburban Doctors Bldg.
10550 Quivira
Shawnee Mission, KS 66215
913-888-3108
Chaudhuri, Sudha T OBG
6225 Raytown Trafficway
Raytown, MO 64133
816-353-2400
Chaudhuri, Tapan K IM
6225 Raytown Trafficway
Raytown, MO 64133
816-353-2400
Chernoff, Selbert G IM
600 N. W. Murray Road
Lee s Summit, MO 64063
816-524-5600
Childs, Donnalea S CHP
4400 Broadway - Suite 202
Kansas City, MO 64111
816-561-2025
Childs, Richard M P
4320 Wornall Rd Ste 452
Kansas City, MO 64111
816-531-2325
Chun, Chung S PD
6420 Prospect Suite T 205
Kansas City, MO 64132
816-363-1304
Chung, Richard T IM
1204 W. 40 Hwy
Blue Springs, MO 64015
816-229-4555
Churchill, Stephen W CHP
4400 Broadway
Kansas City, MO 64111
816-561-2025
Cibis, Gerhard W OPH
421 Plaza Medical Bldg
4620 JC Nichols Park
Kansas City, MO 64112
816-561-0306
Clark, Granville E PD
6025 Prospect
Kansas City, MO 64130
816-333-3112
Clark, Irving H FP
11909 Madison
Kansas City, MO 64145
816-942-2019
Clarkston, Wendell IM
8419 Mattox #90
Kansas City, MO 64154
816-421-0026
Cline, Daniel M IM
14 E. 56th St.
Kansas City, MO 64113
816-452-6620
Cline, Merle A GP
4126 St John Ave
Kansas City, MO 64123
816-483-3119
Cloogman, Howard M DR
Suite 340 - 2928 Main
Kansas City, MO 64108
816-756-1049
Clothier, Robt W PD
17500 Medical Center Pkwy
Suite 5
Independence, MO 64057
816-373-1111
Clough, Chas A NS
4440 Broadway Suite 301
Kansas City, MO 64111
816-561-4655
Coburn, Donald F NS
The Plaza Apt. 812
1303 Delaware Ave.
Wilmington, DE 19806
Cockerell, Charles F PD
205 West R.D. Mize Rd. #304
Blue Springs, MO 64015
816-228-4770
Cockerell, Sanford F PD
11200 Winner Rd
Independence, MO 64052
816-252-9850
*Cohen, Donald L IM
Suite 408
6724 Troost
Kansas City, MO 64131
816-361-2123
Cohen, Harry K FP
6724 Troost
Suite 408
Kansas City, MO 64131
816-361-2123
Cohen, Joel N TR
Suite 340 2928 Main
Kansas City, MO 64108
816-756-1049
Cohen, Lawrence S CD
Plaza Medical Bldg.
1000 E 50th Ste 305
Kansas City, MO 64110
816-276-8181
Cohen, Marvin C GS
6650 Troost Suite 105
Kansas City, MO 64131
816-523-3220
Cokingtin, Diana L IM
412 E. 101st St #201
Kansas City, MO 64131
Cokingtin, Leovigildo C PD
Suite 310
1515 W. Truman Rd.
Independence, MO 64050
816-833-0990
Cole, Sherman W P
6400 Prospect Suite 312
Kansas City, MO 64132
816-531-9009
Colglazier, Mary C IM
204 Plaza Time Bldg
411 Nichols Rd.
Kansas City, MO 64112
816-753-7496
Collier, Robert E EM
2800 Hospital Drive
Kansas City, MO 64116
816-221-1600

---

* Doctor of osteopathy.

Collins, John W ORS
208 The Citadel
1734 3. 63rd St.
Kansas City, MO 64110
816-523-5511
Colom, Geo A P
602 Highlands Prof Towe
6724 Troost
Kansas City, MO 64131
816-333-5941
Conn, Robt D CD
Medical Plaza 11 20
4320 Wornall Rd.
Kansas City, MO 64111
816-931-1883
Conner, W. Edwin CRS
304 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-5648
Coppinger, Thos A IM
415 Penn Park
2929 Balitmore
Kansas City, MO 64108
816-756-0695
Cordell, Larry D ORS
6420 Prospect Avenue
Suite T207
Kansas City, MO 64132
816-444-9000
Cortez, Edwin A MFS
Suite 108 6650 Troost
Kansas City, MO 64131
816-444-2895
Cortner, Mary C FP
6821 Rockhill Rd.
Kansas City, MO 64113
816-363-4646
Cotton, Thos R OTO
3725 Broadway
Kansas City, MO 64111
816-931-2606
Couchonnal, Guillermo IM
9150 E. 41st Terr.
Kansas City, MO 64133
816-356-5000
Cowan, Geo A TR
260 Arapahoe Trail E. Lake
Kansas City, KS 66106
816-363-2677
Cowan, John H R
2928 Main Suite 340
Kansas City, MO 64108
816-756-1050
Cox, Kenneth E OBG
520 Medical Plaza
4320 Wornall Dr.
Kansas City, MO 64111
816-531-9400
Craemer, Chris W FP
6601 Rockhill Rd.
Kansas City, MO 64131
816-361-7333
Cramer, Quentin IM
9140 Ward Parkway
Kansas City, MO 64114
816-444-0400
Crockett, James E CD
4320 Wornall Rd
Kansas City, MO 64111
816-931-1884
Cronemeyer, Richard L DR
6650 Troost Suite 210
Kansas City, MO 64131
816-363-5606
Crouch, Thos T NEP
4320 Wornall Rd
Kansas City, MO 64111
816-531-0552
Crow, Martin L PS
408 Broadway Med Bldg
4400 Broadway
Kansas City, MO 64111
816-561-6633
Csaki, Bela GS
17221 E. 23rd St. No. 107
Independence, MO 64057
816-781-7960
Cullen, John W PD
Denver Childrens Sec Hem/Onc
1056 E. 19th Ave.
Denver, CO 80218
816-234-3268
Curran, M D OPH
109 Broadway Med Bldg
4400 Broadway
Kansas City, MO 64111
816-756-1333
Curran, Terrence OPH
4400 Broadway Bldg
Kansas City, MO 64111
816-756-1333
Curts, Calvin J OPH
714 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-561-2289
Cutcliff, Danl J IM
6700 Troost
Kansas City, MO 64131
816-444-3205
Cygan, Ronald W PD
373 W. 101st Terr.
Kansas City, MO 64114
816-942-8200
Dahl, David C EM
3621 Gillham Rd., #28
Kansas City, MO 64111
816-561-6284
Daily, Donna K PD
Children's Mercy Hosp.
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3591
Dalton, Timothy T AN
917 W. 120th
Kansas City, MO 64145
816-942-2714
Darnell, Dale E ORS
4320 Wornall Rd
Kansas City, MO 64111
816-753-5102
Davidner, Mark L IM
Suite 700
6724 Troost
Kansas City, MO 64131
816-333-1326
Davidson, Kendrick C R
4320 Wornall
Kansas City, MO 64111
816-531-9481
Davis, Alexander C IM
6724 Troost Suite 710
Kansas City, MO 64131
816-333-6000
Davis, Alfred W Jr. IM
3302 Agnes
Kansas City, MO 64128
816-921-5167
Davis, Carl S FP
Lee's Summit Family Care Ctr
225 S. Douglas
Lee's Summit, MO 64063
816-524-2626
Davis, Donald R GS
4320 Wornall Rd
Kansas City, MO 64111
816-561-6453
Davis, Herbert V PD
4400 Broadway
Kansas City, MO 64111
816-561-8100
Davis, Jack M IM
Suite 208
8800 Blue Ridge
Kansas City, MO 64138
816-761-8190
Davis, John M IM
Suite 208 8800 Blue Ridge
Kansas City, MO 64138
816-761-8190
Davis, W B DR
2928 Main Suite 340
Kansas City, MO 64108
816-756-1049
Day, Chester L P
4140 West 71st St.
Suite 108
Shawnee Mission, KS 66208
913-432-7276
Deeken, James H D
411 Nichols Rd Ste 170
Kansas City, MO 64112
816-561-9300
*Delaney, Adrain J AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139
Delcambre, Marie A IM
Prime Health
373 W 101st Terrace
Kansas City, MO 64114
816-942-8200
Dembinski, David R IM
4900 Swope Parkway
Kansas City, MO 64130
816-923-5800
Dempsey, Herbert A FP
615 W 3rd St
Lee's Summit, MO 64063
816-524-3799
Denner, Lee J P
704 Medical Pl
4320 Wornall Rd.
Kansas City, MO 64111
816-561-2524
Devins, George S PUD
520 Rockhill Med. Bldg.
6700 Troost
Kansas City, MO 64131
816-363-0787
DeFeo, Frederick G IM
8821 Widmer Rd.
Shawnee Mission, KS 66215
913-276-1922
DeFeo, Theodore C PTH
Wornall Rd At 44th St
Kansas City, MO 64111
816-932-2500
DeMott, John D P
3618 Sunrise Dr.
Sebring, FL 33870
Diehl, Antoni M PDC
332 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-753-4414
Dixon, Geo D DR
710 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-9481
Dixon, William D IM
4400 Broadway 316
Kansas City, MO 64111
816-756-2520
Dlabal, Luke J Jr. OTO
Suite 205
17221 E. 23rd St.
Independence, MO 64057
816-373-4300
Dlabal, Luke J Sr. FP
3729 Blue Ridge Blvd.
Independence, MO 64052
816-353-8554
Doering, Robt W GS
Suite 501
6420 Prospect Ave.
Kansas City, MO 64132
816-333-8151
Donohoe, Charles D N
17221 E 23rd St
Independence, MO 64057
816-373-3213
Dorsch, Ervin H FP
Remington Arms Co.
Lake City Army Amm.Plt
Independence, MO 64050
816-795-7308
Dorzab, William E PTH
Menorah Medical Center
4949 Rockhill Rd
Kansas City, MO 64110
816-276-8262
Downey, James W FP
6906 W. 52nd Place 2A
Mission, KS 66202
816-756-1577
Downs, Daniel M ORS
1010 Carondelet Dr.
Ste 426 Carondelet Bldg
Kansas City, MO 64114
816-941-0200
Drake, Roy F GS
6600 Outlook
Mission, KS 66202
816-361-5512
Draney, Thos E PD
28 Kirk Cudbright Dr.
Hiwasse, AR 72739
501-855-2651
Dreher, Richard L PD
Children's Mercy Hosp
Kansas City, MO 64108
816-342-3650
Drisko, Robert M II ORS
2929 Baltimore
Kansas City, MO 64108
816-561-3003
Drisko, Robert M ORS
Suite 500 2929 Baltimore
Kansas City, MO 64108
816-561-3003
Drowns, Bruce V D
5421 Oak St.
Kansas City, MO 64112
816-444-5350
Dubin, Sol H ORS
Suite 401
1515 W Truman Rd
Independence, MO 64050
816-254-4800
Duello, Deborah K OBG
110 SW 2nd Street Suite C
Lee's Summit, MO 64063
816-525-4456
Duer, Mildred C PD
324 E 69th Terr
Kansas City, MO 64113
816-444-0808
Duerksen, Joseph J AN
4407 W 54th Terr
Shawnee Mission, KS 66205
913-432-9348
Duggan, Eileen D PD
3036 Gillham RD
Kansas City, MO 64108
816-523-0066
Dukstein, Walter G Jr. NM
6400 Prospect
Kansas City, MO 64132
816-333-5787

---

* Doctor of osteopathy

Duncan, Wm H GS
Wilhelm Strasse 20
7570 Ludwig
Baden Baden, WG 00000
Durie, Robt H PUD
545 Penn Park
2929 Baltimore
Kansas City, MO 64108
816-561-6277
Durnell, Monaford D FP
Goppert Family Care Ctr
6601 Rockhill Rd
Kansas City, MO 64131
816-361-7333
Dwyer, Frank X D
4620 J. C Nichols Pkwy
Kansas City, MO 64112
816-531-1500
Early, Gerald L TS
348 Rockhill Med. Bldg.
6700 Troost
Kansas City, MO 64131
816-333-9332
Earnest, James B CD
415 Penn Park Bldg 415
2929 Baltimore
Kansas City, MO 64108
816-756-0695
Eaton, Paula OBG
200 Penn Park
2929 Baltimore
Kansas City, MO 64108
816-556-9496
*Ediger, Sandra K IM
10229 Bond
Overland Park, KS 66214
913-492-4299
Edmisten, Jack P
1310 E. 104th St.
Bldg E-2 Suite 390
Kansas City, MO 64131
816-941-0868
Eikermann, William C P
Suite 203 6650 Troost
Kansas City, MO 64131
816-523-4777
Eisemann, Gustave IM
Statland Clinic
6724 Troost Suite 710
Kansas City, MO 64131
816-333-6000
Elias, David J FP
9205 E New 40 Highway
Independence, MO 64055
816-356-2000
Elkins, Robert L U
Rockhill Med Plaza N.
6650 Troost Suite 206
Kansas City, MO 64131
816-333-0500
Ellerbeck, Kathryn A IM
5153 Nall
Shawnee Mission, KS 66205
913-831-4705
Ellfeldt, Howard J ORS
Suite T207
6400 Prospect
Kansas City, MO 64132
816-444-9000
Elliott, Raymond G FP
320 Carondelet Medical Bldg.
1010 Carondelet Dr.
Kansas City, MO 64114
816-941-9666
Elliott, Wade E GP
3517 Terrace St.
Kansas City, MO 64111
Ellis, David L GS
6724 Troost Suite 410
Kansas City, MO 64131
816-333-9500
Ellis, Jean H OPH
17500 Med Ctr Parkway #7
Independence, MO 64057
816-373-5593
Ellis, John C OTO
4240 Blue Ridge Blvd #434
Kansas City, MO 64133
816-358-7177
Elser, Otto H OPH
Com. Of Health Ministries
P. O. Box 1059
Independence, MO 64051
816-833-1000
Emory, Jeffrey O EM
6147 Kenwood
Kansas City, MO 64110
314-931-6403
Engelmann, Calvin E GS
1010 Carondelet Suite 405
Kansas City, MO 64114
816-561-2202
Engleman, Reinhold OS
11905 Avila Court
Kansas City, MO 64145
816-942-7713
Enriquez, Roman S IM
2929 Baltimore #310
Kansas City, MO 64108
816-333-0600
Ericsson, Saml E P
6724 Troost Suite 205
Kansas City, MO 64131
816-361-0899
Eubank, David F PD
9406 E 63rd St
Raytown, MO 64133
816-356-1060
Eubank, Wm Y IM
Suite T101
6420 Prospect
Kansas City, MO 64132
816-363-4100
Evans, Jos C GS
Suite 402
1515 W. Truman Rd.
Independence, MO 64050
816-254-9292
Evans, Lawrence L GS
4320 Wornall
Kansas City, MO 64111
816-531-6652
*Everett, James E FP
11319 Summit
Kansas City, MO 64114
816-942-7814
Eynon, James R CD
6420 Prospect T 509
Kansas City, MO 64132
816-523-4535
Fairchild, Robt C PD
8425 Rheinhardt Lane
Shawnee Mission, KS 66206
913-648-5606
Farnham, Milo M IM
1515 W Truman Rd
Independence, MO 64050
816-833-4466
Fedotin, Michael S GE
6420 Prospect Ste T407
Kansas City, MO 64132
816-333-5424
Fee, Chester F ORS
500 Penn Park Bldg.
2929 Baltimore Ave.
Kansas City, MO 64108
816-561-3003
Felt, Samuel E PTH
Dept of Path St. Francis Reg
929 St. Francis
Wichita, KS 67214
Ferber, Alan J OBG
373 W. 101st Terrace
Kansas City, MO 64114
816-942-8200
Ferguson, Donald S D
2608 W. Paseo
Kansas City, MO 64108
816-241-5747
Fernandez, Mark A IM
537 NW 55th Terrace #6
Kansas City, MO 64118
816-454-0154
Ferns, Francis E OBG
#309 4400 Broadway
Kansas City, MO 64111
816-931-9344
Ferris, Carl R IM
Suite T101
6420 Prospect
Kansas City, MO 64132
816-363-4100
Fibuch, Eugene E AN
St Lukes Hosp
44th And Wornal Rd
Kansas City, MO 64111
816-932-2033
Fisher, James K DR
710 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-9481
Fitzgerald, Robert H ORS
5219 West 96th Street
Shawnee Mission, KS 66207
913-649-2422
Fitzsimmons, James G DR
4320 Wornall Road
710 Medical Plaza
Kansas City, MO 64111
816-531-9481
Flatley, John A GS
512 Rockhill Medical Bldg.
6700 Troost
Kansas City, MO 64131
816-361-6656
Fleming, Allan R HEM
2900 Baltimore Med. Bldg.
Suite 530
Kansas City, MO 64108
816-756-1456
Fletcher, Robert C OPH
2900 Baltimore Ave. #520
Kansas City, MO 64108
816-941-0020
Flicker, Michele R IM
Marion Laboratories
10236 Bunker Ridge Rd.
Kansas City, MO 64137
816-966-5000
Flynn, James M PTH
Meyer & Prospect
Research Hosp
Kansas City, MO 64132
816-276-4151
Fogel, Steven T OBG
1000 E. 50th St., Suite 300
Kansas City, MO 64110
816-444-2505
Folck, Wm P OM
Admiral At Oak Street
Kansas City, MO 64106
816-842-1146
Forgue, Donald R PD
Childrens Mercy Hosp
24th & Gillham Rd
Kansas City, MO 64108
816-234-3267
Forman, Louis H P
4320 Wornall Rd
Kansas City, MO 64111
816-531-2325
Forsythe, Lees C PUD
530 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-753-4312
Forsythe, Robt W NS
6457 Verona Rd.
Shawnee Mission, KS 66208
816-531-3305
Fortin, Felix D DR
4320 Wornall Road
Kansas City, MO 64111
816-531-9481
Fouts, Dallas B IM
1515 W Truman Rd
Suite 301
Independence, MO 64050
816-836-8130
Fowler, Dennis L GS
Suite 216 4320 Wornall Rd.
Kansas City, MO 64111
816-931-2393
Fowler, Fred D NS
1247 W. 67th Terrace
Kansas City, MO 64113
Fowler, James W IM
200 W. 53rd Terr.
Kansas City, MO 64112
816-523-9086
Francisco, Clarence B N
24th & Gillham Rd.
Childrens Mercy Hosp
Kansas City, MO 64108
816-234-3090
Franklin, Curtis U P
2900 Baltimore
Suite 380
Kansas City, MO 64108
816-753-1468
Franks, Elliott L IM
6650 Troost - Suite 208
Kansas City, MO 64131
816-523-6606
Freeman, Jerry C OTO
3725 Broadway
Kansas City, MO 64111
816-931-2606
Freiden, Floyd J U
Rockhill Med. Plaza N.
6650 Troost Suite 206
Kansas City, MO 64131
816-333-5433
French, M. Devonne PD
P. O. Box 5385
Kansas City, MO 64131
Friedman, Morris L IM
2516 W. 69th St.
Shawnee Mission, KS 66208
Fritzlen, Thos J PTH
101 Memorial Dr
Kansas City, MO 64108
816-753-5700
Fuhrman, Donald L D
4320 Wornall
Kansas City, MO 64111
816-561-3641
Furlong, Lawrence D DR
114 Carondelet Med. Bldg.
1010 Carondelet Dr.
Kansas City, MO 64114
816-942-6902
Gador, Francisco A EM
2000 Fawn Drive
Blue Springs, MO 64015
Gaines, Albert H GS
1734 E 63rd St
Suite 602
Kansas City, MO 64110
816-523-0202
Galant, Mark R IM
17053 S. 71 Hiway
Belton, MO 64012
816-331-4000

---

* Doctor of osteopathy.

Galblum, Larry I PTH
6550 B-C Troost Ave.
Kansas City, MO 64131
816-333-7888

Galbreath, Ashford M IM
507 Plaza Parkway Bldg
4620 J. C. Nichols Pkwa
Kansas City, MO 64112
816-753-6112

Gamis, Alan S IM
7500 High Drive
Prairie Village, KS 66208
913-642-2456

Gard, Raymond F GS
7077 E Central
Apt. 25
Wichita, KS 67206
316-683-7109

Garfinkel, Lester S PM
3011 Baltimore
Kansas City, MO 64108
816-756-2250

Garner, James H ORS
1010 Carondelet Dr. #426
Kansas City, MO 64114
816-941-0200

Garrison, Roy F PD
404 W. 67th Terr.
Kansas City, MO 64113
816-363-2517

Gaskins, John H PS
1102 Villager 877 N A-1-A
Indialantic, FL 32903

Gauthier, Charles P PTH
2316 E Meyer Blvd
Kansas City, MO 64132
816-276-4151

Geha, Braham J IM
310 Carondelet Med Bldg
1010 Carondelet Dr
Kansas City, MO 64114
816-941-0800

Geiger, Wm A Jr. AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139

Germann, Donald R DR
710 Medical Plaza
4320 Wornall Rd
Kansas City, MO 64111
816-932-2550

Gholkar, Vijay R AN
St Luke's Hospital
44th & Wornall Rd.
Kansas City, MO 64111
816-932-2033

Gibbons, Robt T Jr. AN
5204 West 83rd Terrace
Prairie Village, KS 66207
816-523-0100

Gibson, David M PTH
5049 Wornall Rd. 8F
Kansas City, MO 64112
816-932-2411

Gifford, Phillip S IM
4110 Forest Ave.
Kansas City, MO 64110
816-531-4559

Ginardi, Donald E IM
9734 Wornall Rd.
Kansas City, MO 64114
816-941-9200

Ginsberg, B. William GE
6420 Prospect Ste T407
Kansas City, MO 64132
816-333-5424

Givler, Robt L PTH
Research Medical Center
2316 E. Meyer Blvd.
Kansas City, MO 64132
816-276-4151

Glaser, Larry F ORS
6724 Troost Ste 300
Kansas City, MO 64131
816-363-6500

Glasscock, Ernest L PD
6214 High Dr
Shawnee Mission, KS 66208
913-362-3393

Glazer, Melvin L IM
Suite 201 6650 Troost
Kansas City, MO 64131
816-363-7710

Glenski, James A PD
Suite 138
6400 Prospect
Kansas City, MO 64132
816-444-1139

Glueck, Robert M IM
4949 Rockhill Road
Kansas City, MO 64110
816-276-8260

Goerz, Ann A PD
4336 Dover
Independence, MO 64055
816-228-4700

Goerz, Royal D OBG
1515 W Truman Road #306
Independence, MO 64050
816-836-4200

Goetz, Joseph J DR
2928 Main Suite 340
Kansas City, MO 64108
816-756-1050

Goetz, Kenneth L OS
Wornall Road At 44th St
Kansas City, MO 64111
816-932-2075

Goheen, John R PUD
1010 Carondelet Dr. Ste 340
Kansas City, MO 64114
816-941-0800

Goldman, Barry C IM
Suite 201 6650 Troost
Kansas City, MO 64131
816-363-7710

Goldman, Stanley L A
1010 Carondelet Dr. #310
Kansas City, MO 64114
816-363-4933

Goldsich, Edward OBG
4320 Wornall Rd. #520
Kansas City, MO 64111
816-561-3767

Goldstein, Marvin F OPH
6724 Troost
504 Highlands Prof Twr
Kansas City, MO 64131
816-333-7805

Goolsbee, Robt L AN
6438 Sagamore
Shawnee Mission, KS 66208
913-362-5619

*Gordon, Stephen M OBG
2929 Baltimore
Kansas City, MO 64108
816-561-9496

Gottsch, Joseph C ORS
2929 Baltimore Ave
Kansas City, MO 64108
816-531-6336

Gowdamarajan, Rengasamy PDC
24th & Gillham
Kansas City, MO 64108
816-234-3255

Graham, Patrick G TS
4320 Wornall Rd
Kansas City, MO 64111
816-753-0600

Graham, Wallace H GS
304 Highlands Prof Towe
6724 Troost
Kansas City, MO 64131
816-363-6707

Gray, Frances L PD
4949 Swope Parkway
Kansas City, MO 64130
816-923-5800

Green, J. Richard GS
17221 E 23rd St
Independence, MO 64057
816-373-4646

Green, Thomas F OBG
17500 Med Ctr Parkway Ste 3
Independence, MO 64057
816-478-0220

Greenberg, Martin T IM
373 W 101st Terr
Kansas City, MO 64114
816-942-8200

*Greenspan, Peter B OBG
1515 West Truman Rd. #306
Independence, MO 64050
816-836-4200

Griffin, Donald R AN
8728 Catalina Dr
Shawnee Mission, KS 66208
913-276-7901

Grimes, Elwyn M OBG
Suite 650B 3101 Broadway
Kansas City, MO 64111
816-931-2733

Growdon, John A GS
6508 Aberdeen Road
Shawnee Mission, KS 66208
913-362-6333

Gruenebaum, Michael I IM
9150 E. 41st Terr
Kansas City, MO 64133
816-492-6600

Gruenebaum, Steven A IM
Suite 208 6650 Troost Ave.
Kansas City, MO 64131
816-333-6390

Grunt, Jerome A PD
Childrens Mercy Hosp
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3070

Guastello, Jos R OTO
512 Medical Plaza
4320 Wornall Rd
Kansas City, MO 64111
816-753-5663

Guastello, Mario J OTO
4320 Wornall Rd
Kansas City, MO 64111
816-753-5663

Guerra, Gaston G GS
250 Penn Park
2929 Baltimore
Kansas City, MO 64108
816-561-5880

Gundle, Sigmund P
3806 W. 79th Terrace
Prairie Village, KS 66208
913-642-1048

Gunn, Richard W IM
317 North Van Brunt
Kansas City, MO 64123

Gunnoe, Robert E D
6420 Prospect Suite T419
Kansas City, MO 64132
816-333-5266

Gupta, Mala R ID
Trinity Lutheran Hosp
3030 Baltimore Ave.
Kansas City, MO 64108
816-753-4600

Gura, George M JR. CD
Medical Plaza 11 20
4320 Wornall Rd.
Kansas City, MO 64111
816-931-1883

Gurba, Danny M ORS
4320 Wornall Rd. Suite 610
Kansas City, MO 64111
816-531-5757

Gustafson, Jon E R
1509 Truman Rd
Independence, MO 64050
816-252-4700

Gutek, Edward P PS
408 Broadway Med Bldg
4400 Broadway
Kansas City, MO 64111
816-561-6633

Gutierrez, Anthony C IM
7221 Holmes St.
Kansas City, MO 64131
816-531-4559

Gutknecht, Richard OBG
17500 Med Ctr Parkway Ste 3
Independence, MO 64057
816-478-0220

Haas, Chris J EM
7900 Lee's Summit Road
Kansas City, MO 64139
816-373-4415

Haas, Harry D IM
624 Medical Plaza
4320 Wornall Rd
Kansas City, MO 64111
816-531-1813

Habib, Henry N U
T515 Research Tower Bldg.
6420 Prospect
Kansas City, MO 64132
816-333-6403

Hagar, David L PD
Raytown Clinic
9406 E. 63rd St.
Kansas City, MO 64133
816-356-1060

Hahn, Bruce H GS
615 W. 3rd St.
Lee s Summit, MO 64063
816-524-3799

Hahn, Frederick W OTO
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-358-7177

Haight, J. Max FP
4601 Independence Ave.
Kansas City, MO 64124
816-231-4822

Haith, Edward E GS
Suite 410
6724 Troost
Kansas City, MO 64131
816-333-9500

Haith, Walter F OBG
2701 E 31st St
Kansas City, MO 64128
816-861-2300

*Hall, Frederick K NPM
Children's Mercy Hosp
24th & Gillham
Kansas City, MO 64108
816-234-3593

Hall, John C D
4400 Broadway Ste 505
Kansas City, MO 64111
816-561-7783

Hall, Robt T PD
24th Gillham Road
Kansas City, MO 64108
816-234-3593

Halperin, Phillip H GS
8348 Somerset
Shawnee Mission, KS 66207
816-276-8000

---

* Doctor of osteopathy.

Hamaker, William R TS
Medical Plaza II 50
4320 Wornall Rd.
Kansas City, MO 64111
816-931-7743
Hamburg, Mitchell S IM
4400 Broadway
Suite 316
Kansas City, MO 64111
816-756-2520
Hamburger, Stephen C IM
4409 W. 93rd
Shawnee Mission, KS 66207
Hamedi, Tyann G IM
9805 W. 103rd Terr
Overland Park, KS 66212
913-541-1232
Hamill, Robt W IM
1107 59th Street South
Gulfport, FL 33707
816-531-2020
Hannah, Hamner III CDS
5100 Sunset Dr.
Kansas City, MO 64112
816-931-6366
Hannas, Ralston R EM
11812 Avila Dr
Kansas City, MO 64114
816-942-7086
Hansen, Thomas L PD
17500 Medical Center Pkway
Suite 5
Independence, MO 64057
816-373-1111
Hanson, E J NS
4320 Wornall Rd Ste 328
Kansas City, MO 64111
816-931-1150
Hanson, Karl H HEM
4320 Wornall Ste 212
Kansas City, MO 64111
816-531-0930
Harbrecht, James J CD
Suite 40 11 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-5510
Hardacre, Ruth A OS
P. O. Box 27043
1121 E. 47th St.
Kansas City, MO 64110
816-561-8805
Hardy, Henry M AN
6606 Overhill Rd
Shawnee Mission, KS 66208
913-362-3369
Hardy, John W IM
Amer Telephone & Telegraph
811 Main Box 1418
Kansas City, MO 64141
816-391-2765
Harless, Morris S GS
Rt H Box 85
Galena, MO 65656
Harlow, Lloyd M GS
2462A Brooklyn St.
Kansas City, MO 64127
816-483-8112
Harlow, Richard J Jr IM
17053 South 71 Highway
Belton, MO 64012
816-331-4000
Harold, Ralph E IM
803 Swope Dr.
Independence, MO 64056
816-531-4559
Harris, David J PD
Childrens Mercy Hosp
24th At Gillnam Rd
Kansas City, MO 64108
816-234-3290
Harris, Lanny W ORS
Suite T415
6420 Prospect
Kansas City, MO 64132
816-523-1520
Harris, Weldon L PD
17500 Medical Center Pkway
Suite 5
Independence, MO 64057
816-373-1111
Harrison, Garth F PUD
Suite T303 6420 Prospect
Kansas City, MO 64132
816-333-1919
Hart, L. Wayne CHP
4400 Broadway Ste 202
Kansas City, MO 64111
816-561-2025
Hart, Richard S IM
10150 El Monte
Overland Park, KS 66207
913-648-4448
Hartman, Gregory L IM
Suite 224
4320 Wornall Rd.
Kansas City, MO 64111
816-531-2338

Hartwig, Frederick H GS
6400 Prospect Ave
Kansas City, MO 64132
816-333-8151
Hartwig, Raymond W R
2928 Main Suite 340
Kansas City, MO 64108
816-756-1050
Hartzler, Geoffrey O CD
Medical Plaza 11 20
4320 Wornall Rd.
Kansas City, MO 64111
816-931-1883
Hause, Drew W IM
4320 Wornall Rd. Suite 444
Kansas City, MO 64111
816-753-2514
Hausheer, Herman J OBG
1515 W Truman Rd Ste 30
Independence, MO 64050
816-836-4200
Hays, Larry V GS
4320 Wornall
Kansas City, MO 64111
816-561-6453
Hazen, Robt M OTO
9919 Ensley Lane
Leawood, KS 66206
Hazuka, David F DR
4036 West 104th Terr
Shawnee Mission, KS 66207
913-381-1359
Healy, Brian E ORS
426 Carcndelet Med. Bldg.
1010 Carondelet Dr.
Kansas City, MO 64114
816-941-0200
Hedge, S. Roy IM
6650 Troost Suite 106
Kansas City, MO 64131
816-444-7444
Heilman, Edward J IM
6700 Troost Rm 604
Kansas City, MO 64131
816-361-9066
Hellerstein, Stanley PD
Childrens Mercy Hosp
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3010
Helling, Thomas S GS
4320 Wornall Rd.
308 Medical Plaza
Kansas City, MO 64111
816-753-7460
Hellman, Richard IM
2940 Baltimore Suite 400
Kansas City, MO 64108
816-561-7800
Hemaya, Rizk M P
4722 Somerset Dr.
Shawnee Mission, KS 66207
913-649-6863
Henry, Clarke L TS
6219 Reinhardt Drive
Shawnee Mission, KS 66205
Henry, Clarke L Jr CD
Suite 344 4320 Wornall RD.
Kansas City, MO 64111
816-753-0600
Henson, Bruce E IM
Suite T101
6420 Prospect
Kansas City, MO 64132
816-363-4100
Herdoiza, Alfonso W AN
5300 W. 98th Terrace
Overland Park, KS 66207
816-333-7484
Herman, Edwin M R
900 Highland Prof Tower
6724 Troost
Kansas City, MO 64131
816-333-8420
Hervey, Wm H AN
Wornall Rd At 44th
Kansas City, MO 64111
816-932-2033
Heryer, John W GS
4320 Wornall Rd.
Suite 304
Kansas City, MO 64111
816-531-5648
Hess, Mark R EM
619 East 63rd Terrace
Kansas City, MO 64110
816-444-5308
Hess, Suzanne P IM
619 E. 63rd Terrace
Kansas City, MO 64110
816-444-5308
Hibbard, Blaine Z IM
4320 Wornall Rd
Kansas City, MO 64111
816-753-4312
Higgins, Edward F JR CDS
Suite T 505 6420 Prospect
Kansas City, MO 64132
816-361-3988

Higgins, Ronald A D
340 Carondelet Med Off
1010 Carondelet Dr
Kansas City, MO 64114
816-942-1150
Hill, Jack H PTH
8115 Meadow Lane
Shawnee Mission, KS 66206
913-649-0284
Hink, Frederick W FP
3497 Shady Bend
Independence, MO 64052
Hirsch, Joe E CRS
2405 W. 71st.
Prairie Village, KS 66208
Hodgson, Frank H GS
4301 Main St
Kansas City, MO 64111
816-753-3636
Hoech, Geo P AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139
Hoeper, Saml D GP
12921 Grandview Rd
Grandview, MO 64030
816-333-5092
Hoeper, Samuel D Jr. IM
12921 Grandview Rd.
Grandview, MO 64030
816-761-5588
Hof, David G PUD
530 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-753-4312
Hoffman, Jacob S IM
3340 Shelby Drive
Los Angeles, CA 90034
Hoffmann, Alan L FP
6300 Evanston
Kansas City, MO 64133
816-353-1191
Hoffmann, Lee M PD
Neurology Clinic
Truman Medical Center
Kansas City, MO 64108
816-556-3489
Holder, Thos M PDS
509 Broadway Med Bldg
4400 Broadway
Kansas City, MO 64111
816-931-5538
Holkins, John M IM
6420 Prospect Suite T509
Kansas City, MO 64132
816-523-4525
Hollinger, Lloyd A PUD
6700 Troost
Kansas City, MO 64131
816-444-4700
Holman, Jos G A
4620 J C Nichols Pkwy
Kansas City, MO 64112
816-561-8500
Holton, Edward B OM
Thomas J. Lipton, Inc.
13000 East 35th St.
Independence, MO 64055
Hood, Roger W ORS
8300 College Blvd. Suite 105
Overland Park, KS 66210
913-649-9609
Hoopes, Phillip C OPH
5520 College Blvd.
Overland Park, KS 66211
314-931-4733
Hopkins, James P PS
6650 Troost Suite 200
Kansas City, MO 64131
816-523-7811
Horine, Jon A IM
Suite 201 6650 Troost
Kansas City, MO 64131
816-363-7710
Hornig, Gregory W NS
Suite 328 4320 Wornall Road
Kansas City, MO 64111
816-931-1150
Hornstra, Robijn K P
6724 Troost
Kansas City, MO 64131
816-361-0899
Howard, Campbell P PD
Children's Mercy Hosp.
24th And Gillham Rd.
Kansas City, MO 64108
816-234-3072
Hubbard, Anne M R
Childrens Mercy Hospital
24th & Gillham
Kansas City, MO 64108
816-234-3270
Hubbell, Marius M JR PDC
Children's Mercy Hospital
24th At Gillham Rd.
Kansas City, MO 64108
816-234-3249

---

* Doctor of osteopathy

Huet-Vaugh, Yolanda FP
Research Indep Health Ctr.
2084 Independence Ctr.
Independence, MO 64057
816-795-1234

Hughes, Michael F OTO
1010 Carondelet Dr.
Suite 224
Kansas City, MO 64114
816-942-7200

Hughes, Robert E PD
Bendix Corp P. O. Box 1159
Kansas City, MO 64141
816-997-3200

Hull, Timothy A AN
1000 Carondolet
Kansas City, MO 64114
816-942-4400

Hummel, Gregory L ORS
503 Truman Forest Bldg.
1515 W. Truman Rd.
Independence, MO 64050
816-252-7300

Hunkeler, John D OPH
2900 Baltimore
Suite 650
Kansas City, MO 64108
816-931-4733

Hunt, Thos R NS
6400 Prospect Ave
Kansas City, MO 64132
816-363-1100

Hunzicker, Warren J IM
1248 Stratford Rd.
Kansas City, MO 64113
816-363-2688

Huse, Wm J OBG
2929 Baltimore
Suite 200
Kansas City, MO 64108
816-561-9496

Hustead, Russell M OBG
1010 Carondelet Suite 328
Kansas City, MO 64114
816-941-0700

Huston, Kent A RHU
8805 W. 64 Terrace #204
Merriam, KS 66202
816-531-0930

Hyde, Lawrence L OPH
3101 Broadway Suite 990
Kansas City, MO 64111
816-931-4733

Hynes, Michael F PS
1010 Carondelet
Suite 440
Kansas City, MO 64114
816-942-5900

Ibarra, Guillermo P
4400 Broadway Suite 516
Kansas City, MO 64111
816-931-2947

Ingham, Walton C GS
424 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-753-1442

Innis, Rosalyn E CHP
1202 W. 69th St.
Kansas City, MO 64113
816-471-3000

Irvine, John W OPH
6650 Troost Ave. #300
Kansas City, MO 64131
816-353-7331

Irwig, Fred IM
5109 W 87th St.
Shawnee Mission, KS 66207
913-642-4422

Jackson, Mary Anne PD
Children's Mercy Hospital
24th at Gilliam
Kansas City, MO 64108
816-234-3795

Jacobs, Morton P
6416 Verona Rd.
Shawnee Mission, KS 66208
816-363-5131

Jacobs, Walter H GE
6724 Troost Ave. #710
Kansas City, MO 64131
913-432-8363

Jalal, Sohail IM
3614 Baltimore Apt 1
Kansas City, MO 64111
314-561-2710

James, Otis E ORS
7929 Bristol Court
Shawnee Mission, KS 66208
913-648-7929

Jantz, Keith IM
Kansas City Internal Med.
6420 Prospect #t101
Kansas City, MO 64132
816-363-4100

Jelley, V C ORS
P. O. Box 370
Blue Springs, MO 64015
816-229-2781

Jenab, Morteza J CD
Rockhill Cardiology Group
6650 Troost - Suite 106
Kansas City, MO 64131
816-444-7444

Jenkins, David C CLP
Community Blood Ctr
4040 Main
Kansas City, MO 64111
816-753-4040

Jennett, J H IM
Apt. 1006 - 333 Meyer West
Kansas City, MO 64113
816-333-8946

Jhaveri, Urmila Babubhai GP
3000 Prospect
Kansas City, MO 64128
816-474-4920

Johnson, C L U
2900 Baltimore NO. 540
Kansas City, MO 64108

Johnson, Dallas A D
6700 Troost Ste 504
Kansas City, MO 64131
816-333-4943

Johnson, Gareth R PTH
13111 E. 57th St.
Kansas City, MO 64133
816-356-0954

Johnson, James S OBG
4301 Cleveland
Kansas City, MO 64130
816-861-4250

Johnson, Jos E FP
707 W Montcrew
Kansas City, MO 64114
816-763-5200

Johnson, Richard L IM
12808 Locust
Kansas City, MO 64145

Johnson, Thos M GS
8127 El Monte
Shawnee Mission, KS 66208
913-383-1386

Johnson, Warren L JR CD
Medical Plaza 11 20
4320 Wornall Rd
Kansas City, MO 64111
816-931-1883

Jonas, Harry S OBG
Dean UMKC School Of Med
2411 Holmes
Kansas City, MO 64108
816-276-1800

Jones, Gale O AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139

Jones, Lowry Jr. ORS
4320 Wornall Road Suite 720
Kansas City, MO 64111
816-753-5102

Jones, Marion E U
3000 Prospect Ave.
Kansas City, MO 64128
816-483-6363

Jones, Maynard C DR
3612 Basswood Dr.
Lee s Summit, MO 64063
816-478-1368

Jones, Michael F EM
8 West Brown St.
Liberty, MO 64068
816-474-6810

Jones, Patricia E PD
9150 E. 41st Terrace
Kansas City, MO 64133

Jones, Robert P ORS
402 St. Marys Prof. Bldg.
205 West Rd - Mize Rd
Blue Springs, MO 64015
816-229-6800

Jones, T R IM
6341 Roe
Shawnee Mission, KS 66208
913-362-9669

Joyce, Steven T ORS
610 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-5757

Judy, Bernard O IM
310 Carondelet Med. Bldg.
1010 Carondelet Dr.
Kansas City, MO 64114
816-491-4071

Justus, John B IM
4620 J C Nichols Pkwy
Kansas City, MO 64112
816-531-1500

Kagan, Stuart M PD
Suite 340 10050 Quivira
Overland Park, KS 66215
816-362-6000

Kahn, Marvin A
Statland Clinic
6724 Troost Ste.710
Kansas City, MO 64131
816-333-6000

Kanarek, Joseph PD
601 E 63rd St Ste. 311
Kansas City, MO 64110
816-333-8666

Kandt, Raymond E OPH
416 Carondelet Medical
1010 Carondelet Dr
Kansas City, MO 64114
816-942-8556

Kantor, Julius M PD
601 E 63rd St Suite 406
Kansas City, MO 64110
816-363-6118

Kantor, Saml OPH
9723 E. Maplewood Ave.
Englewood, CO 80111

Kartus, Irving P
PO Box 6453
Leawood, KS 66206

Kaufman, Andrew B NS
Suite 411 6420 Prospect
Kansas City, MO 64132
816-363-2500

Kaufmann, Herbert H OBG
1000 E. 50th St. Suite 300
Kansas City, MO 64110
816-444-2505

Kayanan, Jose C GS
Suite 335 2928 Main
Kansas City, MO 64108
816-561-6365

Keairnes, Harold W IM
300 Rockhill Med. Bldg.
6700 Troost
Kansas City, MO 64131
816-444-6122

Keitges, Pierre W PTH
Physicians Ref. Lab.
1010 W. Carondelet Dr
Kansas City, MO 64114
816-942-8100

Kelling, Douglas G OM
11021 West 96th Terrace
Shawnee Mission, KS 66214
913-888-8861

Kelly, Charles R PM
St. Luke s Hosp
44th And Wornall Rd.
Kansas City, MO 64111
816-932-2020

Keltner, Raymond O OBG
4400 Broadway Suite 302
Kansas City, MO 64111
816-753-7060

Kendall, Chas A IM
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-356-8877

Kendall, Forrest H OTO
Suite 224
1010 Carondelet Dr
Kansas City, MO 64114
816-942-7200

Kendall, Malcolm E CD
6420 Prospect T509
Kansas City, MO 64132
816-523-4525

Kennedy, Fred R GS
4320 Wornall Rd
Kansas City, MO 64111
816-561-6453

Kennedy, Timothy D R
340 Penn Park
2928 Baltimore
Kansas City, MO 64108
816-756-1050

Kenney, John D AN
1000 E. 50 #340
Kansas City, MO 64110
816-333-7484

Kent, Bela K OBG
6724 Troost Ave #910
Kansas City, MO 64131
816-333-3305

Kerr, Harold H TS
41 Poquito Rd.
Shalimar, FL 32579

Ketterman, Grace H CHP
Crittenton Center
10918 Elm Ave.
Kansas City, MO 64134
816-765-6600

Khoury, Cecile S AN
3901 W. 121st Terrace
Leawood, KS 66209
913-381-5644

Khulusi, Basimah PM
3011 Baltimore
Kansas City, MO 64108
816-756-2250

Kielhofner, Marcia A IM
639 E. 70th Terr
Kansas City, MO 64131
816-561-0769

---

* Doctor of osteopathy

Kilbride, Howard W PD
Children's Mercy Hosp
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3591

Killen, Duncan A TS
Medical Plaza II 50
4320 Wornall Rd
Kansas City, MO 64111
816-931-7743

Kimball, Merritt H AN
610 E 36th
Kansas City, MO 64109
816-531-2094

Kimble, Harvey S AN
9841 Nall Ave.
Shawnee Mission, KS 66207
816-942-4400

Kindred, Lynn H CD
40 11 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-5510

King, Jay T CD
4320 Wornall Rd.
Kansas City, MO 64111
816-531-2140

Kingsbury, Helen AN
8451 Somerset Dr.
Shawnee Mission, KS 66207
913-362-6782

Kitchen, Wm M R
2700 W. 68th St.
Shawnee Mission, KS 66208
913-362-3235

Klein, Edward H GS
7011 Rae Ave
Prairie Village, KS 66208
913-362-7011

Knight, Lyle B GP
606 Shamrock Apt 106
Lee's Summit, MO 64063

Knoch, H K OBG
6606 Willow Lane
Shawnee Mission, KS 66208
913-362-2350

Koontz, Paul G GS
4320 Wornall Rd
Kansas City, MO 64111
816-753-7460

Kopp, Kenneth R IM
8630 Halsey
Lenexa, KS 66215
913-492-6600

Kopperman, Mordecai DR
900 Highland Profession
6724 Troost
Kansas City, MO 64131
816-333-8420

Koppers, Lawrence E END
4320 Wornall Rd.
Med Plaza II Suite 55
Kansas City, MO 64111
816-561-6464

Koury, William C DR
4320 Wornall Rd Ste 710
Kansas City, MO 64111
816-531-9481

Kraft, Jacob GS
6700 Troost Suite 420
Kansas City, MO 64131
816-523-1050

Kranson, Seymour J PD
909 W Johnston Ave.
Hemet, CA 92343
714-925-5425

Krishna, Padma PD
Wayne Miner Health Center
825 Euclid
Kansas City, MO 64124
816-474-4920

Kuhn, Wm F OM
6412 Granada Dr.
Shawnee Mission, KS 66208
913-262-4459

Kunz, Stephen R R
4320 Wornall Rd. Suite 128
Kansas City, MO 64111
816-561-5858

Kurtz, Karl J U
4400 Broadway
Suite 412
Kansas City, MO 64111
816-561-7200

Kyger, John E AN
17421 Medical Center Parkway
Independence, MO 64057
816-373-0263

Labach, James P PTH
Physicians Reference Lab
1010 W. Carondelet
Kansas City, MO 64114
816-556-3212

Labayen, Ricardo A EM
10238 Hardy
Overland Park, KS 66212
913-362-5585

Labrie, Paul L GS
Independence Surgical Clinic
17221 E 23rd St.
Independence, MO 64057
314-373-4646

Laiben, Gregg R IM
1400 S. 7th Highway
Blue Springs, MO 64015
816-229-8187

Lally, James J GS
4620 Nichols Pkwy
Kansas City, MO 64112
816-931-6190

Lambie, Rodger W R
900 Highland Prof Tower
6724 Troost
Kansas City, MO 64131
816-333-8420

Landers, Burnell GE
4240 Blue Ridge Blvd. #801
Kansas City, MO 64133
816-333-1821

Landis, Geo K IM
2304 West Johns Blvd.
Raymore, MO 64083
816-331-2992

Landsman, Ira S PD
Children's Mercy Hospital
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3000

Langley, Harriet S IM
8419 Reinhardt Lane
Leawood, KS 66206
913-362-7234

Lapi, Angelo PTH
2012 Stratford Rd
Shawnee Mission, KS 66208
913-362-4127

Larsen, Wm E HEM
Trinity Lutheran Hospital
3030 Baltimore
Kansas City, MO 64108
816-753-4600

Latham, Raymond W PD
206 Broadway Med. Building
4400 Broadway
Kansas City, MO 64111
816-561-8100

Lauer, Danl J IM
236 Medical Plaza
4320 Wornall Rd
Kansas City, MO 64111
816-531-2020

Laughlin, Edward J IM
1515 W. Truman Rd. #408
Independence, MO 64050
816-461-6837

Laughlin, Thomas P AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-276-4000

Layle, John K Jr. RHU
212 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-0930

Layton, Ira C IM
4010 Washington - Suite 100
Kansas City, MO 64111
816-531-3908

Lederer, Charles M Jr. OPH
6650 Troost Suite 310
Kansas City, MO 64131
816-333-3525

Lee, Henry A R
6650 Troost Suite 210
Kansas City, MO 64131
816-363-5606

Lee, King Y OPH
6650 Troost Ave. Suite 300
Kansas City, MO 64131
816-333-7376

Lee, Tae H NEP
300 The Citadel
1743 E. 63rd St.
Kansas City, MO 64110
816-444-2098

Lees, Joyce M EM
Trinity Lutheran Hosp
31st & Wyandotte St
Kansas City, MO 64108
816-383-6272

Leese, Philip T EM
5100 E. 24th St.
Kansas City, MO 64127
816-483-1850

Legler, Larry E FP
17611 E. 24th Highway
Independence, MO 64056
816-257-7787

Leibsohn, Joel M OPH
1515 W Truman Rd
Suite 505
Independence, MO 64050
816-836-8166

Leifer, Gary U
Rockhill Medical Plaza N.
6650 Troost Suite 206
Kansas City, MO 64131
913-341-0827

Leifer, Wm W U
121 West 48th St.
Kansas City, MO 64112
816-333-0500

Lem, Vincent M IM
Suite 510 4320 Wornall Rd.
Kansas City, MO 64111
816-756-2255

Lentz, Clark H OM
2600 W. 69th St.
Shawnee Mission, KS 66208
913-362-7515

Lentz, Harold C U
1515 W. Truman Rd.
Suite 404
Kansas City, MO 64050
816-836-8831

Lerner, Bruce AN
8953 Linden Lane
Prairie Village, KS 66207
913-492-9269

Lerner, Scott A PUD
4320 Wornall Suite 510
Kansas City, MO 64111

Letizia, Wayne L IM
1210 Ash Avenue
Independence, MO 64052
816-373-2732

Levelle, Jonathan P AN
1000 E. 50th #340
Kansas City, MO 64110
314-333-7484

Levey, Harry B OBG
6022 Harrison
Kansas City, MO 64110
816-444-5538

Levi, Bernard IM
4949 Rockhill Rd.
Kansas City, MO 64110
816-276-8259

Lewis, Frank H IM
500 Blue Ridge Tower
4240 Blue Ridge Blvd.
Kansas City, MO 64133
816-836-1616

Lewis, Revis C NS
Penn Park Med Bldg Ste
2929 Baltimore
Kansas City, MO 64108
816-561-8288

Lewitton, Solomon GS
410 Highland Prof Tower
6724 Troost
Kansas City, MO 64131
816-333-9500

Liang, Jing C GS
17221 E 23rd
Independence, MO 64057
816-373-4646

Lichtor, Jos M ORS
6724 Troost Suite 409
Kansas City, MO 64131
816-363-5442

Liliedahl, Roger L AN
6700 Troost Ave. Suite 600
Kansas City, MO 64131
816-276-7901

Lindgren, Carleton J P
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-358-6262

Lindquist, Carl N OM
Rt 4 Box 150
Reeds Spring, MO 65737

Link, Vance E FP
Suite 302
1515 W. Truman Rd.
Independence, MO 64050
816-836-8200

Linkus, Kevin A CD
2929 Baltimore Suite 330
Kansas City, MO 64108
816-531-0118

Lintecum, Frederick B OBG
4320 Wornall Rd. Suite 520
Kansas City, MO 64111
816-531-9400

Linville, Howard E GS
416 Rockhill Med. Bldg.
6700 Troost
Kansas City, MO 64131
816-333-2424

Litton, Nancy J PTH
Rt 3 Box 383A
Independence, MO 64050
816-249-3750

Liu, Ben C OBG
9150 E. 41st Terrace
Kansas City, MO 64133
816-356-5000

Liu, Johns N R
1218 W. 67 Terr
Kansas City, MO 64113

---

* Doctor of osteopathy

Lockwood, Gary F OBG
4320 Wornall Rd Ste 520
Kansas City, MO 64111
816-531-9400
Lockwood, Ted E PS
408 Broadway Medical Bldg.
4400 Broadway
Kansas City, MO 64111
816-561-6633
Lofgreen, Craig S FP
2084 Independence Ctr.
Independence, MO 64057
314-795-1234
Loftus, Loretta S HEM
UMKC School Of Medicine
2411 Holmes
Kansas City, MO 64108
816-474-4100
Lohrentz, Lois H AN
2800 W 50th Terrace
Shawnee Mission, KS 66205
913-333-7484
Long, R S FP
6601 Rockhill Road
Kansas City, MO 64131
816-361-7333
Lopez-Plata, Roberto GS
1010 Carondelet Dr. #201
Kansas City, MO 64114
816-333-6750
Loren, Michael L PDA
17500 Medical Center Parkway
Suite 6
Independence, MO 64057
Lorenzo, Edilberto B CHP
1820 W 91st Place Suite 305
Kansas City, MO 64114
816-361-7476
Lotuaco, Gamaliel G PS
5218 N.W. 64th St.
Kansas City, MO 64151
816-741-3969
Loutzenhiser, James K P
1010 Carondelet Dr.
Suite 424
Kansas City, MO 64114
816-942-8445
Love, Gerry A IM
4900 Raytown Rd. #135
Kansas City, MO 64133
816-353-5649
Lozoff, Richard D GE
6650 Troost Suite 100
Kansas City, MO 64131
816-523-2300
Ludwig, Mark A EM
1000 Carondelet Drive
Kansas City, MO 64114
816-942-4000
Luetje, Charles M OTO
3100 Broadway Suite 509
Kansas City, MO 64111
816-531-7373
Lyddon, Harold R FP
1221 W. 67th St.
Kansas City, MO 64113
816-444-0274
Lynch, Alison M P
17221 E. 23rd St.
Independence, MO 64057
816-373-1911
Maben, Sam E IM
9406 E 63rd
Kansas City, MO 64133
816-356-1060
Macinnis, Florence E PUD
Our Lady Of Mercy
918 E. 9th St.
Kansas City, MO 64106
MacDonald, Robin R DR
6650 Troost, Suite 210
Kansas City, MO 64131
816-363-5606
MacGee, Edwin E NS
4440 Broadway
Kansas City, MO 64111
816-561-4655
MacNaughton, Ralph E DR
Carondelet Radiology In
1010 Carondelet Dr R
Kansas City, MO 64114
816-942-6900
MacNaughton, Robt A R
Carondelet Radiology In
1010 Carondelet Dr R
Kansas City, MO 64114
816-942-6900
Mahmoud, Said F PUD
2900 Baltimore
Suite 350
Kansas City, MO 64108
Mais, Thomas E R
12864 Sagamore Rd.
Shawnee Mission, KS 66209
913-341-2791

Maliszewski, James A IM
6420 Prospect Suite T101
Kansas City, MO 64132
816-363-4100
Mallouk, Alexander G IM
4320 Wornall Rd Ste 514
Kansas City, MO 64111
816-931-6712
Mallow, James E AN
2401 West 93rd St.
Shawnee Mission, KS 66206
913-381-1235
Mangum, William B OTO
434 Blue Ridge Tower
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-358-7177
Manion, Thos S U
1515 W. Truman Rd. Suite 508
Independence, MO 64050
816-254-6116
Manuel, Louis C OPH
1734 E 63rd St
Kansas City, MO 64110
816-363-4700
Marsh, Alice PD
Pleasant Hill, MO 64080
Marshall, Hal E PTH
4949 Rockhill Rd
Kansas City, MO 64110
816-276-8262
Martin, Mark W FP
300 S. E. 2nd
Lee's Summit, MO 64063
816-524-2626
Martin, Victoria L IM
6712 Millcreek
Shawnee, KS 66217
913-268-7555
Martinez, John R IM
6317 Baltimore
Kansas City, MO 64113
816-333-3366
Maslan, Mark J OTO
6724 Troost
Kansas City, MO 64131
816-333-6996
Masucci, Jos M FP
600 Argyle Bldg
306 East 12 St
Kansas City, MO 64106
816-221-8848
Matile, Gerald U OBG
4400 Broadway Suite 305
Kansas City, MO 64111
816-931-9344
Matovich, Violet B N
Univ. Of Mo. K. C.
2411 Holmes
Kansas City, MO 64108
816-474-4100
Matta, Camille S OPH
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-358-3600
Maulik, Dev OBG
Truman Med Ctr OB/GYN Dept
2301 Holmes
Kansas City, MO 64108
816-556-3534
Mayer, John H TS
101 Memorial
Kansas City, MO 64108
816-561-6510
McBride, Nancy M OBG
4400 Broadway
Suite 302
Kansas City, MO 64111
816-753-2223
McCallister, Ben D CD
4320 Wornall Rd
Kansas City, MO 64111
816-931-1884
McCanse, Andrew GS
GMAD 6817 Stadium Dr.
Kansas City, MO 64129
913-281-7218
McClanahan, Robt C IM
310 W 49th St. Apt 502
Kansas City, MO 64112
816-471-2892
McConahay, David R CD
4320 Wornall Road
Kansas City, MO 64111
816-931-1883
McConchie, James E R
3936 Sequoia
Lee's Summit, MO 64063
816-373-4124
McCormack, Robert E IM
9150 E. 41st Terr
Kansas City, MO 64133
816-356-5000
McCoy, Frederick J PS
4177 Broadway
Kansas City, MO 64111
816-561-1414

McCroskey, Lon C GS
Room T505 Research Towers
Research Med Ctr
Kansas City, MO 64132
816-361-3988
McDonald, Herbert L TS
1010 Carondelet Dr.
Suite 301
Kansas City, MO 64114
816-942-0007
McDonald, James H IM
3600 Rainbow Blvd. Apt 305
Kansas City, KS 66103
913-384-2638
McDonnell, John F IM
4320 Wornall Rd
Kansas City, MO 64111
816-753-3243
McFarland, H R N
4320 Wornall
Kansas City, MO 64111
McFarland, M D IM
5830 High Dr.
Shawnee Mission, KS 66208
McGannon, Paul T GS
The Fountain Head
3900 N. Ocean Blvd.
Lauderdale, FL 33308
McGuire, Thos H OBG
Suite T 307
6420 Prospect
Kansas City, MO 64132
816-361-7807
McGunegle, Daniel E OBG
Little Blue & Lee's Summit
Kansas City, MO 64139
816-873-4415
McGurk, Thomas E P
1010 Carondelet
Kansas City, MO 64114
816-941-3731
McIntosh, Donald E AN
300 S. W. Green Teal
Lee's Summit, MO 64063
816-444-1139
McIntosh, Michele C PD
11200 Winne Rd
Independence, MO 64052
816-836-4300
McIntyre, John D AN
4948 Westwood Rd
Kansas City, MO 64112
816-753-2185
McKee, Frank E OPH
11201 Colorado
Kansas City, MO 64137
816-761-6722
McKee, Wallace P IM
4320 Wornall Rd
Kansas City, MO 64111
816-931-1166
McKeel, Thos B IM
615 Highland Prof
6724 Troost
Kansas City, MO 64131
816-444-9348
McKinley, Lois J IM
2929 Baltimore St. #435
Kansas City, MO 64108
816-753-8220
McKinsey, David S ID
2316 E. Meyer Blvd.
Kansas City, MO 64132
816-276-4038
McKnelly, Wm V P
39th & Rainbow Blvd
Kansas City, KS 66103
816-588-6493
McLaughlin, Durnell OPH
1000 E. 50th St. #210
Kansas City, MO 64110
816-361-1515
McLemore, Willie O IM
2703 E. 31st St.
Kansas City, MO 64128
816-924-2211
McLeod, Alan J DR
St. Lukes Hosp. Dept Of Rad
Wornall Rd At 44th
Kansas City, MO 64111
816-932-2550
McMurray, Earlene H ONC
6420 Prospect Ste T513
Kansas City, MO 64132
816-363-2677
McNutt, Theodore L GP
6901 W. 101 St.
Shawnee Mission, KS 66212
913-649-6627
McPhee, Mark S IM
4320 Wornall Rd. Suite 332
Kansas City, MO 64111
816-561-2700
McWoods, Emmett IM
7685 Charles Dr Apt 203
Lenexa, KS 66216
913-631-0279

---

* Doctor of osteopathy.

Medley, Benjamin E DR
1010 Carondelet Dr
Suite 114
Kansas City, MO 64114
816-942-6900

Medlicott, William J ORS
4320 Wornall Rd
Kansas City, MO 64111
816-753-5102

Meegan, Robt J R
340 Penn Park Med. Ctr.
2928 Baltimore
Kansas City, MO 64108
816-756-1050

Meiklejohn, Duncan C OBG
1600 W. 40 Hwy St. Ste 206
Blue Springs, MO 64015
816-228-9331

Melgaard, Sven R AN
12887 Cambridge Circle
Leawood, KS 66209
913-642-0545

Melia, B J Jr. D
216 Carondelet Medical Bldg.
1010 Carondelet Dr.
Kansas City, MO 64114
816-942-4336

Mertz, Janet S OTO
6724 Troost Ave. #208
Kansas City, MO 64131
816-561-4423

Mested, Peter H AN
Anesthesia Associates
6400 Prospect Suite 138
Kansas City, MO 64132
444-113-0000

Metzl, Kurt PD
601 E 63rd
Kansas City, MO 64110
816-363-6118

Meyer, Paul W ORS
610 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-5757

Michelson, Richard B GPM
P.O.Box 169
3637 Broadway
Kansas City, MO 64141
816-932-5359

Miles, Geo O GS
37 Compton Ct.
Shawnee Mission, KS 66208

Milgram, Byron A P
6724 Troost #807
Kansas City, MO 64131
816-444-5161

Miller, Gerald L Jr. OBG
Research Off Towers Bldg
T301 6420 Prospect
Kansas City, MO 64132
816-444-6888

Miller, John T IM
2929 Baltimore Suite 415
Kansas City, MO 64108
816-756-0695

Miller, Michael R IM
Wayne Miner Health Center
825 Euclid Ave.
Kansas City, MO 64124
816-474-4920

Miller, Wilson H IM
6420 Prospect Ave.
Suite T 305
Kansas City, MO 64132
816-444-4114

Millet, Ruth E PTH
4949 Rockhill Road
Kansas City, MO 64110
816-276-8262

Minnigerode, Lana K PM
Research Medical Center
2316 E. Meyer Blvd.
Kansas City, MO 64132
816-756-2250

Minnigerode, Turner L IM
Research Hosp. & Med. Ctr.
2316 E. Meyer Blvd.
Kansas City, MO 64132
816-276-4167

Mir, Abdul R IM
1734 E 63rd St
Kansas City, MO 64110
816-444-2098

Mitchell, Andrew D U
4320 Wornall Rd
Kansas City, MO 64111
816-753-2033

Mitchell, John D U
2900 Baltimore Suite 540
Kansas City, MO 64108
816-561-7414

Mitchell, Nevada A IM
6306 Morningside Dr.
Kansas City, MO 64113
816-444-2525

Mitchell, Robt H OBG
1006 Grand Ave.
Suite 1134
Kansas City, MO 64106
816-471-1330

Mitra, Nirmal K PD
11201 Colorado
Kansas City, MO 64137
816-761-0775

Mittleman, Frederick S P
4205 W. 102 St.
Overland Park, KS 66207
913-888-0341

Mongan, James J GP
2220 Holmes Rd.
Kansas City, MO 64108
816-421-6103

Montello, Samuel A OBG
Suite T 307
6420 Prospect
Kansas City, MO 64132
816-361-4747

Montgomery, Michael A CD
2929 Baltimore Suite 415
Kansas City, MO 64108
816-756-0695

Mooney-Smith, Patricia OBG
2014 Swift
Kansas City, MO 64116
816-421-3115

Moore, David L GS
4400 Broadway
Kansas City, MO 64111
816-753-4404

Moore, Jack D U
4320 Wornall Rd
Kansas City, MO 64111
816-753-2033

Moore, John M IM
Suite 238
6400 Prospect
Kansas City, MO 64132

Moore, Mary Joan GS
1010 Carondelet Dr. #310
Kansas City, MO 64114
816-756-1310

Moore, Orin A OBG
9150 E. 41st Terrace
Kansas City, MO 64133
816-356-5000

Morantz, Robert A N
Research Med Off Tower T411
6420 Prospect
Kansas City, MO 64132
816-363-2500

Morest, F S IM
5795 La Pinata Blvd. #212 B2
Lake Worth, FL 33463
305-964-8510

Morgan, David B D
4620 J C Nichols Pkwy
Kansas City, MO 64112
816-561-2200

Morgan, Wm R PS
Carondelet Medical Bldg
1010 Carondelet Dr S
Kansas City, MO 64114
816-942-5900

Morris, J H IM
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-356-8877

Morris, Terry V OBG
1515 W. Truman Rd.
Independence, MO 64050
816-836-4200

Morrison, Donald H AN
1412 Lynwood Ct.
Liberty, MO 64068
816-781-0045

Morrison, Richard A TR
17525 Medical Center Park
Independence, MO 64057
816-373-2700

Mosbacher, Hugh E PS
109 Ironbark Lakewood
Lee's Summit, MO 64063
816-373-7493

Moss, Paul GE
4706 Broadway
Kansas City, MO 64112
816-531-8733

Mou, Susan M OBG
Truman Medical Center OBGYN
2301 Holmes
Kansas City, MO 64108
816-556-3534

Moylan, Charles V PD
Suite 206 4400 Broadway
Kansas City, MO 64111
816-561-8100

Muelleman, Peter J D
17421 Medical Center Parkway
Independence, MO 64057
816-478-1830

Muelleman, Robert L EM
16724 E. 31st Terrace
Independence, MO 64055
816-373-1540

Mueller, Martin J IM
11723 Central
Kansas City, MO 64114

Mullen, Leo M FP
1900 W 68th St.
Shawnee Mission, KS 66208
816-921-5411

Muller, Milton PS
1132 Luttrell
Blue Springs, MO 64015
816-228-3069

Mundy, Wm L IM
5905 Slater
Merriam, KS 66202
913-362-0606

Munger, Michael L FP
Hickman Mills Clinic
11201 Colorado
Kansas City, MO 64137
816-763-5200

Munyan, Earl A IM
17221 E. 23rd St.
Suite 309
Independence, MO 64057
816-373-1122

Murphy, Everett M III PUD
545 Penn Park
2929 Baltimore
Kansas City, MO 64108
816-561-6277

Murphy, Robt J D
6428 High Dr.
Shawnee Mission, KS 66208
913-362-7305

Mutchnick, Norman GS
6724 Troost
Suite 910
Kansas City, MO 64131
816-333-2000

Muther, Richard S IM
500 Rockhill Med. Bldg.
6700 Troost
Kansas City, MO 64131
816-361-0670

Myers, Carl M FP
P. O. Box 658
Platte City, MO 64079
816-361-0035

Myers, Geo H U
1010 Carondelet Dr
Kansas City, MO 64114
816-942-4243

Myers, John S OM
425 Huntington Rd
Kansas City, MO 64113
816-444-4334

Myron, Mark C IM
1016 W. 69th Terr.
Kansas City, MO 64113
816-361-5208

Naime, Mansour J PD
136 Rockhill Med Bldg
6700 Troost
Kansas City, MO 64131
816-363-3337

Navato, Jose R P
3624 Bluejacket Dr.
Lee s Summit, MO 64063
816-254-3652

Nelson, Bentley A OTO
1010 Carondelet Dr.
Suite 224
Kansas City, MO 64114
816-942-7200

Nelson, Paul W GS
6700 Troost Suite 348
Kansas City, MO 64131
816-333-9332

Nelson, Richard E AN
Dept Of Anesthesia St. Lukes
4400 Wornall Rd.
Kansas City, MO 64111
816-932-2033

Nesselrode, John H GS
1515 W Truman Rd
Ste 402
Independence, MO 64050
816-254-9292

Newman, Robt L OBG
St Lukes Hosp
44th & Wornall Rd
Kansas City, MO 64111
816-932-2047

Nicholis, G. Ronald PD
8630 Halsey
Lenexa, KS 66215

Nichols, Ramon L IM
4900 Swope Parkway
Kansas City, MO 64130
816-921-5162

Nickell, Margaret B OBG
4320 Wornall Rd. Suite 520
Kansas City, MO 64111
816-531-9400

Nielsen, Mark A IM
5626 N.W. 87th Terr #344
Kansas City, MO 64154
816-587-7379

---

* Doctor of osteopathy.

Nielson, Michael H OBG
1515 W. Truman #410
Independence, MO 64050
816-252-8412
Nieman, John L PO
9801 Juniper Lane
Overland Park, KS 66207
Nigro, Thomas L GS
2900 Baltimore
Suite 320
Kansas City, MO 64108
816-931-0240
Noback, Richardson K IM
UMKC School Of Med
2411 Holmes
Kansas City, MO 64108
816-276-1800
Noltensmeyer, Milton H AN
3305 W 50th Terr
Shawnee Mission, KS 66205
913-236-6973
O'Farrell, Thos P GS
Suite T505
6420 Prospect
Kansas City, MO 64132
816-361-3988
O'Hearne, John J P
4706 Broadway
Kansas City, MO 64112
816-531-7020
O'Kell, Richard T PTH
St Lukes Hosp Dept Path
44th & Wornall Rd
Kansas City, MO 64111
816-932-2411
O'Malley, James F U
2117 W. 120th St.
Leawood, KS 66209
816-333-9939
O'Neil, James H GS
275 Tait Terrace Se
Port Charlotte, FL 33952
Oleson, Gale B D
600 NW Murray Rd.
Lee's Summit, MO 64063
816-525-7260
Olson, Lloyd C PD
24th And Gillham Rd
Childrens Mercy Hosp
Kansas City, MO 64108
816-234-3370
Oppermann, Karen J PD
4900 Swope Parkway
Kansas City, MO 64130
816-923-5800
Osborne, Jere O OM
1010 Ozark Natl. Life Bldg.
906 Grand
Kansas City, MO 64106
816-842-4751
Ost, Mark D PTH
6550 B Troost
Kansas City, MO 64131
816-333-7888
Ostergaard, Daniel J FP
1740 W. 92nd St.
Kansas City, MO 64114
816-333-9700
Overesch, Harry B ORS
6400 Prospect Ave Suite 200
Kansas City, MO 64132
816-363-2202
Overman, John C PTH
Jackson Co Med Examiner
2301 Holmes
Kansas City, MO 64108
816-283-3494
Owens, Oennis P P
6400 Prospect Suite 142
Kansas City, MO 64132
314-444-3199
Owens, James L OBG
302 Broadway Med. Bldg
4400 Broadway
Kansas City, MO 64111
816-753-2223
Owens, Richard L FP
720 Oak
Kansas City, MO 64106
Owens, Robt H U
6700 Troost Ave. Suite 236
Kansas City, MO 64131
816-333-9939
Oxley, Dwight K CLP
1010 W. Carondelet Suite 126
Kansas City, MO 64114
816-942-8100
Ozar, Milton B U
Rockhill Med. Plaza N.
6650 Troost Suite 206
Kansas City, MO 64131
Padula, Richard T TS
Suite T211 Research Med. Off
6420 Prospect Ave.
Kansas City, MO 64132
816-523-8120
Pakula, Sidney F PD
4545 Wornall Road
Kansas City, MO 64111
816-753-6628
Palazola, Joseph M IM
4320 Wornall
Suite 440
Kansas City, MO 64111
816-753-3243
Panek, Judy L IM
9807 Eastern
Kansas City, MO 64134
Paone, Douglas B IM
6420 Prospect
Suite T101
Kansas City, MO 64132
816-363-4100
Pardadelo, Jorge C TR
6420 Prospect Suite T513
Kansas City, MO 64132
816-363-2677
Parelman, Allen G OPH
402 West 50th St.
Kansas City, MO 64112
816-523-9066
Parker, Craig A AN
Anesthesia Associates KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139
Parker, Joseph C Jr PTH
Dept of Pth 2301 Holmes
Kansas City, MO 64108
816-556-3212
Parker, Kim E AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139
Parkins, George K ORS
500 Penn Park
2929 Baltimore
Kansas City, MO 64108
816-561-5003
Parsons, Eugene O GS
145 State Line Kenneth
Stanley, KS 66223
913-681-2376
*Parsons, William B IM
5706 N. Jarboe Or.
Kansas City, MO 64118
816-452-8318
Paschino, Antonio R P
4400 Broadway
Kansas City, MO 64111
816-561-2025
Pattison, Charles P P
540 Penn Park
2929 Baltimore
Kansas City, MO 64108
816-781-1100
Pawsat, John E ORS
5401 Chadwick
Fairway, KS 66205
913-722-2161
Pecoraro, Anthony P PD
4400 Broadway
Kansas City, MO 64111
816-561-8100
Peete, Oon C CD
9012 West 102nd St.
Shawnee Mission, KS 66212
913-341-1158
Pemberton, Loarn B GS
Truman Medical Center
2301 Holmes
Kansas City, MO 64108
816-556-3505
Pendell, Paul W GS
501 Bowen Dr.
Raymore, MO 64083
816-322-1825
Pendergrass, Kelly B ON
6420 Prospect
Suite T101
Kansas City, MO 64132
816-363-4100
Penner, Stanley PD
1010 Carondelet Dr.
Kansas City, MO 64114
816-941-0808
Perico, Carlos J FP
1212 Luttrell Suite C
Blue Springs, MO 64015
Perll, Maurice F Jr. ORS
830 W. 61st Terr.
Kansas City, MO 64113
816-333-1007
Perll, Rita O CHP
Child Psy Childrens Hospital
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3213
Perryman, John C IM
4400 Broadway
Suite 316
Kansas City, MO 64111
816-756-2520
Petersen, Eugene G R
108 Hackberry (Lakewood)
Lee's Summit, MO 64063
816-373-1253
Peterson, Bonita J PTH
4550 Warwick Blvd Apt 2
Kansas City, MO 64111
816-561-6013
Peterson, Carl M GS
2701 E 31st St
Kansas City, MO 64128
816-861-2300
Peterson, Jay T HEM
4320 Wornall Rd
Suite 212
Kansas City, MO 64111
816-531-0930
Peterson, Walter R GS
2701 E 31st St
Kansas City, MO 64128
816-861-2300
Pfeffer-Hurwitz, Judith CHP
Suite 202 4400 Broadway
Kansas City, MO 64111
913-649-6854
Philgreen, Donald E FP
The Light House
1409 E. Meyer Blvd.
Kansas City, MO 64131
816-361-2233
Phillips, Thomas P ORS
610 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-5757
Pickard, Nicholas S ORS
6210 High Dr
Shawnee Mission, KS 66208
913-362-7021
Pickering, Lee I IM
1515 W Truman Road
Independence, MO 64050
816-836-8130
Piebenga, Larry W OPH
4400 Broadway
Kansas City, MO 64111
816-561-1136
Piepergerdes, Larry G OPH
4240 Blue Ridge Blvd Ste 701
Kansas City, MO 64133
816-737-1010
Pinkerton, Joseph A Jr. TS
308 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-753-7460
Pinsker, Oscar T OTO
6724 Troost #200
Kansas City, MO 64131
816-333-6996
Piper, Donald K ORS
1010 Carondelet Or. #426
Kansas City, MO 64114
816-941-0200
Pitiyanuvath, Tasanaporn PD
6306 Morningside Dr.
Kansas City, MO 64113
816-474-4920
Place, Kenneth C OPH
130 Penn Park
2928 Main
Kansas City, MO 64108
816-756-1236
Plapp, Frederick V CLP
Dept of Pth St. Lukes Hosp
44th & Wornall Road
Kansas City, MO 64111
314-753-4040
Pogson, George W III IM
12211 E. 67th St.
Kansas City, MO 64133
314-461-6837
Politi, Gregory B AN
3621 Wyncote Lane
Shawnee Mission, KS 66205
913-384-1507
Pompushko, Rosalie P
4706 Broadway Suite 105
Kansas City, MO 64112
816-531-3686
Poonawala, Huseni E CHP
11201 Colorado
Kansas City, MO 64137
Porter, Charles B IM
Suite 40 II - 4320 Wornall
Kansas City, MO 64111
816-531-5510
Porter, Louis AN
1000 E. 50th #340
Kansas City, MO 64110
816-333-7484
Porter, Michael J AN
6925 Belinder
Shawnee Mission, KS 66208
913-384-3688
Porter, Walter N Jr. P
12745 W. 76th St.
Shawnee Mission, KS 66216
913-921-6000

---

* Ooctor of osteopathy.

Postma, George S IM
8901 W. 74th St. #333
Shawnee Mission, KS 66204
914-262-9311

Potts, Donald A FP
Truman Medical Center East
7900 Lee's Summit Rd.
Kansas City, MO 64139
816-373-4415

Powell, Alan E PD
17500 Medical Center Pkwy
Suite 5
Independence, MO 64057
816-373-1111

Powers, Catherine A AN
6400 Prospect Suite 138
Kansas City, MO 64132
816-444-1139

Price, Patrick K OPH
218 W. Rd Mize Rd.
Blue Springs, MO 64015
816-373-5711

Printz, Jos H GS
820 W. 64th Terrace
Kansas City, MO 64113
816-333-5005

Pro, John D P
6400 Prospect Suite 100
Kansas City, MO 64132
816-561-2524

Prostic, Edward J ORS
6724 Troost Suite 800
Kansas City, MO 64131
816-333-1700

Pryor, Harold J PM
EMG Laboratory
6420 Prospect Ste T503
Kansas City, MO 64132
816-361-8684

Psaltis, Phillip E IM
4634 N. Highland
Kansas City, MO 64116
816-455-3761

Pugh, Richard G PD
H27 N. Lake Shore Drive
Lake Lotawana, MO 64063

Pyszczynski, Dennis R IM
2411 Holmes UMKC
Kansas City, MO 64108
816-276-1978

Quer, Erich A GS
1802 Regency House
221 W. 48th St.
Kansas City, MO 64112

Quiason, Arturo G P
Suite 109
17221 E. 23rd St.
Independence, MO 64057
816-373-1911

Quiason, Emmeline P CHP
109 Med. Plaza Bldg.
17221 E. 23rd St.
Independence, MO 64057
816-373-1911

Quick, Annette M IM
214 E. Armour Blvd. Apt. 507
Kansas City, MO 64111
816-753-4030

Quick, William W IM
6700 Troost Suite 324
Kansas City, MO 64131
816-361-0222

Racela, Antonio S PTH
912 Burning Tree
Kansas City, MO 64145

Rader, Ada E GP
13414 Locust St
Kansas City, MO 64145
816-942-0732

Raible, Michele D IM
1223 West 69th
Kansas City, MO 64113
816-474-6810

Raich, Robt A IM
4320 Wornall Rd Rm 440
Kansas City, MO 64111
816-753-3243

Ramey, Ehret O OBG
4320 Wornall Ave
Kansas City, MO 64111
816-561-0056

Ramos, Americo G TS
348 Rockhill Med Bldg
6700 Troost
Kansas City, MO 64131
816-333-9332

Rampertaap, Moonasar P IM
1943 Lawrence Ct.
Kansas City, KS 66103
913-561-1646

Ratnam, Dasari V P
6448 Verona Rd.
Shawnee Mission, KS 66208
913-262-3489

Raybould, Michael W IM
Suite 415 2929 Baltimore
Kansas City, MO 64108
816-756-0695

Rayford, Cleveland E IM
825 Euclid
Kansas City, MO 64124
816-474-4920

Reardon, Jane D PD
3006 Buchanan
No. Kansas City, MO 64116
816-781-2956

Rector, Joe L TR
710 Medical Plaza
4320 Wornall Rd.
Kansas City, MO 64111
816-531-9481

Reddin, Jack L IM
17221 E 23rd St Ste 209
Independence, MO 64057
816-373-1188

Reddy, Sarvotham K GS
6225 Raytown Trwy 81 2607
Kansas City, MO 64133
816-353-7744

Reed, Wm A TS
Medical Plaza II 50
4320 Wornall Rd.
Kansas City, MO 64111
816-931-7743

Regier, Anne M RHU
6650 Troost Ste 205
Kansas City, MO 64131
816-361-1910

Reinhardt, John R TS
2929 Baltimore
Kansas City, MO 64108
816-531-0118

Reiss, Jeanne E N
Ste 400 Highlands Prof Tower
6724 Troost
Kansas City, MO 64131
816-444-4082

Reister, Dorothy D PD
5201 W 84th
Shawnee Mission, KS 66207
913-649-3429

Reister, Philip D GS
Suite 705
6724 Troost
Kansas City, MO 64131
816-523-2119

Rengachary, Dhanalakshmi OBG
210 Spruce
Lee's Summit, MO 64063
816-373-1597

Renner, John H FP
St. Mary's Hospital
101 Memorial Dr.
Kansas City, MO 64108
816-753-5700

Reynolds, Clarence C IM
1734 E 63rd St
Suite 605
Kansas City, MO 64110
816-361-1770

Rhoades, Charles E ORS
Suite 610 4320 Wornall Rd.
Kansas City, MO 64111
816-531-5757

Rhoads, Jack V IM
12921 Grandview Road
Grandview, MO 64030
816-761-5588

Rhodes, Andrew J NS
Suite 503
1515 W Truman Rd
Independence, MO 64050
816-252-6961

Rhodes, Philip G PD
Childrens Mercy Hosp
24th & Gillham Rd.
Kansas City, MO 64108

Ricci, Walter F P
6724 Troost
Kansas City, MO 64131
816-361-0899

Richards, Dean D III IM
1010 Carondelet
Kansas City, MO 64114
816-361-0660

Richardson, Lloyd D PTH
Dept Of Pathology
2316 E. Meyer Blvd
Kansas City, MO 64132
816-276-4071

Richardson, Marilyn R OBG
Suite 650B 3101 Broadway
Kansas City, MO 64111
816-931-2733

Richardson, Marion W OBG
2526 Prospect
Kansas City, MO 64127
816-923-9600

Richert, Robt C PTH
504 W 96th St
Kansas City, MO 64114
816-942-0297

Richmond, Joseph S IM
7541 Lathrop
Kansas City, KS 66109
913-334-0014

Rigdon, John F A
6700 Troost Avenue
Suite 600
Kansas City, MO 64131
816-276-7901

Rigolosi, Ronald A IM
373 W 101st Terrace
Kansas City, MO 64114
816-942-8200

Riley, J P R
Parthenon, AR 72666

Riller, Lowell E ORS
1267 W 61
Kansas City, MO 64113
816-471-6165

Rippey, John H PTH
St. Luke s Hospital Lab.
44th And Wornall Rd.
Kansas City, MO 64111
816-932-2411

Ritter, William S CD
St. Mary's Hospital
101 Memorial Dr.
Kansas City, MO 64108
816-753-0155

Robb, Christine A FP
13010 White #B
Grandview, MO 64030
816-761-1660

Roberts, Charles C PD
Childrens Mercy Hospital
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3016

Roberts, Fred F PDR
Dept Of Radiology
St Joseph Hosp
Kansas City, MO 64114
816-942-6900

Roberts, Grosvenor G OM
777 N Blue Pkwy
Lee s Summit, MO 64063
816-251-4480

Robinett, Wade V OTO
6700 Troost
616 Rockhill Med. Bldg.
Kansas City, MO 64131
816-444-9408

Robinson, Arthur W IM
4320 Wornall Rd
Kansas City, MO 64111
816-531-0552

Robinson, Ernest K GS
1015 W 58th Terr
Kansas City, MO 64113
816-333-0438

Robinson, Wm J P
9931 Lee Circle
Leawood, KS 66206
913-648-2494

Rodgers, Geo H U
Suite 515 6420 Prospect
Kansas City, MO 64132
816-333-6403

Rodgers, Saml U OBG
2701 E 31st St
Kansas City, MO 64128
816-861-2300

Roedel, Kathryn R IM
4312 Jarboe
Kansas City, MO 64111
816-531-4559

Rofail, Amin A AN
9206 England
Shawnee Mission, KS 66212
913-341-7091

Rogers, Robt L OTO
T401 6420 Prospect
Kansas City, MO 64132
816-361-5858

Romig, Laurie A EM
1508 B Mewes Dr.
Kansas City, MO 64131
816-531-4559

Rope, Douglas M IM
373 W. 101st Terr.
Kansas City, MO 64114
816-942-8200

Rose, Barry A ORS
6724 Troost Suite 300
Kansas City, MO 64131
816-333-1700

Rosen, Larry A IM
Suite 500
4240 Blue Ridge Blvd.
Kansas City, MO 64133
816-356-8877

Ross, Robert M IM
751 E. 63 3rd Floor
Kansas City, MO 64110
816-942-8200

Roth, Alfred D AN
600 Rockhill Med. Bldg.
6700 Troost
Kansas City, MO 64131
816-276-7901

• Doctor of osteopathy.

Rowe, Vernon D III 4320 Wornall Rd. Suite 420 Kansas City, MO 64111 816-753-8800	N
Rozen, Jay I 6420 Prospect Suite T209 Kansas City, MO 64132 816-523-2400	R
Rubnitz, Leon H 210 W. 94th St. Kansas City, MO 64114 816-333-7484	AN
Rues, Lawrence A Goppert Family Care Center 6601 Rockhill Rd Kansas City, MO 64131 816-361-7333	FP
Russell, James L 330 Penn Park Bldg 2929 Baltimore Kansas City, MO 64108 816-531-0118	TS
Russell, Robt K 8933 Rose Lane Kansas City, MO 64133 816-353-0036	FP
Rutherford, Barry D Medical Plaza II #20 4320 Wornall Rd. Kansas City, MO 64111 816-931-1883	IM
Rymer, Marilyn M 4320 Wornall Rd. Suite 220 Kansas City, MO 64111 816-531-4599	N
Ryser, Carol A 7447 H0lmes Kansas City, MO 64131 816-363-3313	PD
Sabates, Felix N 300 Rockhill Medical Plaza N 6650 Troost Ave. Kansas City, MO 64131 816-333-7376	OPH
Sabates, Roland 300 Rockhill Medical Plaza N 6650 Troost Ave. Kansas City, MO 64131 816-333-7376	OPH
Saferstein, A L 8308 Somerset Shawnee Mission, KS 66207 913-381-1441	AN
Safley, Thos J 17221 E 23rd St Independence, MO 64057 816-373-4646	GS
Saldana, Dahlia 9205 E. 40th Highway Independence, MO 64055 816-861-4020	IM
Salvaggio, Bruce H Medical Plaza Building 4320 Wornall Suite 312 Kansas City, MO 64111 816-931-6220	IM
Samuelson, Edward A 706 W 112th St Kansas City, MO 64114 816-942-3092	FP
Sanders, Donald C 6400 Prospect Suite 312 Kansas City, MO 64132 816-531-9009	P
Sanders, Wm F Bendix Corp. P.O.Box 1159 Kansas City, MO 64141	IM
Sandow, Theodore L 4320 Wornall Rd Kansas City, MO 64111 816-753-5102	ORS
Santoro, Carlos G 1103 Westport Rd Kansas City, MO 64111 816-753-1568	GS
Sarwark, John F Dept of Orthopaedic Surgery 24th & Gillham Rd. Kansas City, MO 64108 816-234-3693	ORS
Sauer, Gordon C 6400 Prospect Suite 338 Kansas City, MO 64132 816-444-5601	D
Saxer, John J III 6601 Rockhill Rd. Kansas City, MO 64131 816-361-7333	FP
Scanlon, Charlotte D 5524 Roeland Dr. Roeland Park, KS 66205 816-531-3066	IM
Scarborough, Betty F 11274 Hemlock Shawnee Mission, KS 66210 913-531-4559	IM
Scarborough, Mark R 11274 Hemlock Shawnee Mission, KS 66210 913-236-5075	IM
Scharf, Daniel 4949 Rockhill Rd Menorah Medical Ctr Kansas City, MO 64110 816-276-8259	IM
Scherer, Stephen Kansas City Internal Med. Ste T 101 6420 Prospect Kansas City, MO 64132 816-363-4100	IM
Schiffmacher, Jack E 4517 W 65th St Prairie Village, KS 66208 913-831-1319	R
Schillie, Gene A T301 Research Med. Bldg. 6420 Prospect Kansas City, MO 64132 816-444-6888	OBG
Schlozman, Danl L Suite T 303 6420 Prospect Kansas City, MO 64132 816-333-1919	PUD
Schmidt, Thomas L The Children s Mercy Hosp. 24th At Gillham Rd. Kansas City, MO 64108 816-234-3693	ORS
Schnell, Gregory A 5030 Glenwood Apt. 9 Mission, KS 66202 913-384-3825	IM
Schoolman, Arnold 8705 Catalina Shawnee Mission, KS 66207 816-363-2500	NS
Schottman, Gerhard W 710 Medical Plaza 4320 Wornall Rd. Kansas City, MO 64111 816-531-9481	R
Schutz, Richard B John Knox Village Care Ctr Room 202 500 N. Murray Lee s Summit, MO 64063	OBG
Schwartz, Howard I 6420 Prospect Suite T107 Kansas City, MO 64132 816-753-2484	OBG
Schwegler, Robert G 10235 Catalina Shawnee Mission, KS 66207 913-649-1924	DR
Seely, Clark W 3000 W 68th St Shawnee Mission, KS 66208 913-362-6450	PD
Seiden, Gerald D 6724 Troost Suite 208 Kansas City, MO 64131 816-361-6013	OTO
Seitz, Elson F 1509 W Truman Rd Clinic Independence, MO 64050 816-836-8100	PTH
Sells, Kenneth J 2900 Baltimore Ste 400 Kansas City, MO 64108 816-756-1222	FP
Seshumurty, Ponnuru Prime Health 373 West 101st Terr. Kansas City, MO 64114 816-942-8200	PD
Seshumurty, Vimala 4900 Swope Parkway Kansas City, MO 64130 816-823-5800	PD
Shadowen, David I 808 Trafalgar St. Charleston, SC 29412	IM
Shadowen, Rebecca D 808 Trafalgar St. Charleston, SC 29412	IM
Shaffer, Stanley G Childrens's Mercy Hospital 24th & Gillham Rd. Kansas City, MO 64108 816-234-3591	PD
Shalet, Malcolm F 6724 Troost Ave Ste 500 Kansas City, MO 64131 816-363-5662	IM
Shapiro, Lazare M P O Box 1441 Sun City, AZ 85351	IM
Sharma, Janardana N 208 Medical Plaza 4320 Wornall Rd Kansas City, MO 64111 816-531-0552	IM
Sharma, Vidya Children's Mercy Hosp 24th & Gillham Rd Kansas City, MO 64108 816-234-3684	PD
Sharp, Ronald J Suite 509 4400 Broadway Kansas City, MO 64111 816-931-5538	PDS
Sharp, Stanley P 5209 W. 68th St. Shawnee Mission, KS 66208 913-722-4629	IM
Sheahon, John A 6700 Raytown Rd Raytown, MO 64133 816-358-5300	OBG
Shechter, Nathan 800 Highlands Prof Tower 6724 Troost Kansas City, MO 64131 816-333-1700	ORS
Sheehan, Michael B 641 E Meyer Blvd. Kansas City, MO 64131 816-333-9788	PD
Shelden, Russell D 816 W 58th Terrace Kansas City, MO 64113 816-333-0248	AN
Sherman, Neal J 8630 Halsey Lenexa, KS 66215 913-492-6600	IM
Sheverini, James A Medical Plaza II 50 4320 Wornall Rd Kansas City, MO 64111 816-931-7743	TS
Shifrin, Alexander 6700 Troost Ave Kansas City, MO 64131 816-444-2100	IM
Shockley, Clarence J 615 W 3rd St Lee's Summit, MO 64063 816-524-3799	OBG
Shuey, Herbert H 5339 W. 96th St. Shawnee Mission, KS 66207 816-363-3011	GP
Shuler, Frederick N 6650 Troost #100 Kansas City, MO 64131 816-363-5662	GE
Shuss, David H 4320 Wornall Rd. Suite 224 Kansas City, MO 64111 816-531-2338	IM
Siegel, Carl D 11116 Glen Arbor Terrace Kansas City, MO 64114	GP
Simmons, Donald D 2900 Baltimore Suite 380 Kansas City, MO 64108 816-753-1468	P
Simmons, John L 6420 Prospect Ave. Suite T507 Kansas City, MO 64132 816-363-5600	U
Simon, Sanford 6724 Troost Ste 410 Kansas City, MO 64131 816-333-9500	GS
Sinclair, Richard H Suite T 307 6420 Prospect Kansas City, MO 64132 816-361-4747	OBG
Singh, Linda C Wayne Miner Health Ctr 825 Euclid Kansas City, MO 64124 816-474-4920	IM
Singleton, Charles M 4320 Wornall Rd Ste 410 Kansas City, MO 64111 816-561-7817	IM
Singleton, John M 4400 Broadway Suite 310 Kansas City, MO 64111 816-531-0288	IM
Sinnett, Mark F Little Blue & Lee Summit Rd. Truman Medical Center E Kansas City, MO 64139 816-373-4415	IM
Sirridge, Marjorie J 2411 Holmes Kansas City, MO 64108 816-474-4100	IM
Sirridge, Wm T UMKC School Of Medicine 2411 Holmes Kansas City, MO 64108 816-556-3517	IM

---

* Doctor of osteopathy.

Skillman, Robt K IM
4320 Wornall Rd
Kansas City, MO 64111
816-753-4312

Skinner, John T GP
1238 W. 65th St.
Kansas City, MO 64113
816-333-1566

Slankard, J E OBG
4320 Wornall Rd.
Kansas City, MO 64111
816-753-6010

Slentz, Edwin L IM
4812 West 66th Terrace
Shawnee Mission, KS 66208

Slentz, Wm A IM
4320 Wornall Rd
Suite 348
Kansas City, MO 64111
816-561-3500

Sly, Anne K IM
5711 Locust
Kansas City, MO 64110
816-444-0931

Smith, Arthur B R
8409 Wenonga Rd
Shawnee Mission, KS 66206
913-648-3754

Smith, C. Byron III OPH
Suite 409
4620 J.C. Nichols Pkwy
Kansas City, MO 64112
816-753-5599

Smith, David Lambuth ID
2316 E Meyer Blvd.
Kansas City, MO 64132
816-276-3980

Smith, Elbert E PD
4400 Broadway
Kansas City, MO 64111
816-561-8100

Smith, Hubert E IM
Suite 338 6400 Prospect
Kansas City, MO 64132
816-444-4958

Smith, Katherine W PD
Children's Mercy Hospital
24th And Gillham Rd.
Kansas City, MO 64108
816-234-3054

Smith, Othello D PTH
6550 c Troost
Kansas City, MO 64131
816-333-7888

Smith, Page A IM
10591 Gillette
Overland Park, KS 66215
314-541-8803

Smith, Reid C IM
Research Downtown Health
720 Oak St.
Kansas City, MO 64106
816-474-6690

Smith, Wallace B OPH
337 Partridge
Independence, MO 64055

Snavely, Sharon R IM
6724 Troost
Kansas City, MO 64131
816-333-6000

Sneid, David S IM
Suite 550
2900 Baltimore
Kansas City, MO 64108
816-756-1234

Sollars, Eric G IM
1636 NW 67th Terrace
Kansas City, MO 64118

Spake, Robert V OTO
4400 Broadway Suite 409
Kanas City, MO 64111
816-531-4777

Spalding, Wilber B Jr. OPH
2928 Main St
Kansas City, MO 64108
816-756-1236

Spaulding, Kenneth A GS
3800 Locust St.
Kansas City, MO 64109
816-861-2300

Speckman, Jerry M DR
6420 Prospect Suite T209
Kansas City, MO 64132
816-523-2400

Spencer, Donald M ORS
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-356-3100

Spies, Barbara J GP
P. O. Box 338
Louisburg, KS 66053
913-837-2911

Sprague, Gita IM
6115 N. Jefferson #6
Kansas City, MO 64118
816-279-9151

Spurney, Joe E FP
11201 Colorado
Kansas City, MO 64137
816-763-5200

Spurny, Otto M CD
6724 Troost Suite 500
Kansas City, MO 64131
816-363-5662

Staab, Gerald E R
6650 Troost Suite 210
Kansas City, MO 64131
816-363-5606

Stacey, Wallace R OBG
17500 Med Ctr Pky Suite 3
Independence, MO 64057
816-478-0220

Staggs, Wm A U
2929 Baltimore Ave Ste
Kansas City, MO 64108
816-561-6365

Stanley, Charles G OM
Richard Cabot Clinic
1810 Summit St.
Kansas City, MO 64108
816-471-0900

Stanley, John H CHP
4400 Broadway
Kansas City, MO 64111
816-561-2025

Stanton, Danny K IM
2725 Sewell Ave.
Kansas City, KS 66104
816-321-4530

Starks, Gregory C OBG
6400 Prospect
Suite 312
Kansas City, MO 64132
816-361-3640

Stass-Isern, Merrill L EM
1405 W. 50th Terr.
Kansas City, MO 64112

Statland, Harry IM
Statland Clinic
6724 Troost Suite 710
Kansas City, MO 64131
816-333-6000

Statland, Morris IM
2911 W. 66th Terrace
Shawnee Mission, KS 66208

Steel, Maxwell W IM
P.O. Box 1159
Kansas City, MO 64141
816-997-3200

Steffen, Lawrence F CD
9606 Nieman Place
Shawnee Mission, KS 66214
913-888-2502

Stehr, Christian H AN
Bethany Medical Center
51 N. 12th St.
Kansas City, KS 66102
913-281-8501

*Steinbrecher, Janis M IM
12005 Cherokee
Leawood, KS 66209
913-383-2857

Steinhaus, David M IM
Suite II-20 4320 Wornall
Kansas City, MO 64111
816-931-1883

Stelmach, Walter J FP
5252 Sunset Dr
Kansas City, MO 64112
816-444-1410

Stephens, Jack D AN
17421 Medical Center Parkway
Independence, MO 64057
816-333-7484

Stephenson, Robert E DR
Suite 340 2928 Main
Kansas City, MO 64108
816-756-1050

Stern, Thos L FP
121 W 48th St.
Kansas City, MO 64112
816-333-9700

Stewart, Harry A P
4706 Broadway Ste 105
Kansas City, MO 64112
816-531-3686

Stiaszny, Louis K PD
9150 E. 41st. Terrace
Kansas City, MO 64133
816-356-5000

*Stillie, G. Donald ONC
Suite 340 - 2928 Main
Kansas City, MO 64108
816-756-1050

Stitt, Ronald W Jr. ORS
300 Highlands Prof. Tower
6724 Troost
Kansas City, MO 64131
816-363-6500

Stockton, Raymond W U
4320 Wornall Rd
Kansas City, MO 64111
816-753-2033

*Stoddard, James M IM
2900 Baltimore
Suite 550
Kansas City, MO 64108
816-756-2673

Stout, Carl N OPH
701 Blue Ridge Tower
4240 Blue Ridge
Kansas City, MO 64133
816-737-1010

Strain, Herb A PS
4320 Wornall Rd. Suite 420
Kansas City, MO 64111
816-561-4900

Stratemeier, Edward H R
1705 Weatherton
Blue Springs, MO 64015
816-756-1050

Strauss, Carl F IM
Suite 201 6650 Troost
Kansas City, MO 64131
816-363-7710

Stribling, Thos L OBG
17500 Med Ctr Parkway Ste 3
Independence, MO 64057
816-478-0220

Strickler, Donna G IM
5433 Foxridge Dr. Bldg 8/210
Mission, KS 66202

Stromberg, Eric D AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139

Suarez, Alberto FP
1135 Clubhouse Ct.
Lee's Summit, MO 64063
816-942-1446

Sublette, Glen L N
6724 Troost Suite 400
Kansas City, MO 64131
816-444-4082

Suddarth, Sterling B PD
6214 Valley Rd.
c/o Harvey Mims
Kansas City, MO 64113

Suenram, Mark R FP
300 S. E. 2nd
Lee's Summit, MO 64063
816-525-2626

Sulit, Arnulfo P IM
2900 Baltimore Bldg Ste 600
Kansas City, MO 64108
816-753-5700

Sullivan, Bradley H OBG
Suite T 301 6420 Prospect
Kansas City, MO 64132
816-444-6888

Sullivan, Christine EM
8604 Chestnut Circle Apt 3
Kansas City, MO 64131
816-363-2265

Sullivan, S. Garrett AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1134

Suseela, Dasari PD
4900 Swope Pkwy
Kansas City, MO 64130
816-923-5800

Sutton, Richard L D
3203 W 83rd Terrace
Shawnee Mission, KS 66206
913-383-1894

Swaim, Truett ORS
205 W Rd Mize Rd #402
Blue Springs, MO 64015
816-229-6800

Swanson, Howard J RHU
Suite T101 Research Med Off.
6420 Prospect
Kansas City, MO 64132
816-363-4100

Sword, Suzanne H FP
2 East 39th Street
Kansas City, MO 64111
816-941-0800

Szabados, Ernest D ORS
17221 E 23rd St
Independence, MO 64057
816-373-2211

Szeto, J. Simon IM
720 Oak St. Suite 200
Kansas City, MO 64106
816-471-2892

Takacs, Robert J ORS
Rockhill Medical Plaza North
Suite 103 6650 Troost
Kansas City, MO 64131
816-444-4664

Talbott, Lawrence B PTH
4104 W. 110th St.
Shawnee Mission, KS 66211

Tamblyn, Claire L AN
7912 Pawnee
Prairie Village, KS 66208
913-642-7737

---

* Doctor of osteopathy.

Taormina, Marc K IM
1515 W. Truman Rd. Suite 403
Independence, MO 64050

Tapuz, Jaime T AN
2105 Independence Blvd.
Kansas City, MO 64124

Taylor, John R.W. OPH
7112 Washington
Kansas City, MO 64114
816-363-5350

Tella, Nalini IM
12633 W. 75th Terr
Shawnee Mission, KS 66216
815-531-4165

Thalblum, Harvey DR
6420 Prospect Ste T209
Kansas City, MO 64132
816-523-2400

Theel, Otto W FP
4301 Main St
Kansas City, MO 64111
816-931-3199

Thibeault, Donald W PD
Children's Mercy Hosp.
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3592

Thiele, Geo H CRS
5201 NE Roma Ave. #122
Alburquerque, NM 87108
505-931-4813

Thomas, Alexis G IM
1734 E. 63rd
Kansas City, MO 64110
816-923-3141

Thomas, Christopher Y GS
308 Medical Pl.
4320 Wornall Rd.
Kansas City, MO 64111
816-753-7460

Thomas, James J AN
Anesthesia Associates of KC
6400 Prospect #138
Kansas City, MO 64132
816-444-1139

*Thomas-Richards, Jose R ORS
3101 Broadway #370
Kansas City, MO 64111
816-361-4343

Thompson, C. Leslie IM
Villa Medici Apt. 110
9544 Rosewood Lane
Shawnee Mission, KS 66207

Thompson, David E AN
17421 Med Ctr Pkwy
Independence, MO 64057

Thompson, Scott W FP
2900 Baltimore Suite 400
Kansas City, MO 64108
816-756-1222

Throne, Ben J TR
Research Med. Office Tower
6420 Prospect, Ste. 513
Kansas City, MO 64132
816-363-2677

Tice, Wayne K DR
3626 Blue Jacket Drive
Lee's Summit, MO 64063
816-373-3385

Tillema, David A ORS
Rockhill Medical Plaza North
Suite 103 6650 Troost
Kansas City, MO 64131
816-444-4664

Tiojanco, Milagros E AN
11807 Washington
Kansas City, MO 64114
816-941-8314

Titterington, Frank W IM
236 Medical Plaza
4320 Wornall Rd
Kansas City, MO 64111
816-531-2020

Toubes, Daniel B IM
Suite 201 6650 Troost
Kansas City, MO 64131
816-363-7710

Trevor, Richard P N
Research Med Bldg.
Ste T209 6420 Prospect
Kansas City, MO 64132
816-523-2400

Trimble, Geo X IM
101 Memorial Dr
Kansas City, MO 64108
816-753-5700

Troeh, Melvin R IM
1515 W. Truman Rd.
Suite 301
Independence, MO 64050
816-836-8130

Trowbridge, Barnard C OTO
415 E 63rd St
Kansas City, MO 64110
816-361-0744

Trowbridge, Ellsworth P
18435 101st Dr
Sun City, AZ 85373
602-972-3132

Tung, Robert T IM
3023 Puckett Rd. #28
Kansas City, KS 66103
913-677-4227

Tuohy, Gerald F AN
44th & Wornall Rd
Kansas City, MO 64111
816-932-2033

Turano, Wm L OBG
6700 Raytown Rd
Raytown, MO 64133
816-358-5300

Turner, Ronald M GS
1515 W Truman Rd Ste 402
Independence, MO 64050
816-254-9292

Tutera, Dominic F OBG
4400 Broadway Suite 309
Kansas City, MO 64111
816-561-3767

Tutera, Gino OBG
400 E. Red Bridge Rd. #202
Kansas City, MO 64131
816-941-3540

Twyman, Richard A GS
7919 Bristol Ct
Shawnee Mission, KS 66208
913-642-7919

Underwood, Dick H OPH
2009 W. 123 Terrace
Leawood, KS 66209
816-649-0217

Upsher, Albert E PTH
Box 2778
Kansas City, MO 64142
816-842-4850

*Vale, Janett A IM
4916 Howe Dr.
Roeland Park, KS 66205
816-531-4559

Van Biber, James T PD
1612 W Truman Rd
Independence, MO 64050
816-252-9922

Van Buskirk, Terrance E GP
5246 St John Ave
Kansas City, MO 64123
816-231-0141

Van Buskirk, Wm C GS
6700 Troost Suite 308
Kansas City, MO 64131
816-361-1822

Vaughn, James W P
411 Nichols Rd., Ste. 208
Kansas City, MO 64112
816-561-6766

Vaughters, Frank M PD
1000 E. 50th #320
Kansas City, MO 64110
816-523-0066

Veenstra, Sallie L PD
600 N. W. Murray Road
Lee's Summit, MO 64063
524-560-0000

Vera, Enrique P
6724 Troost
#205
Kansas City, MO 64131
816-361-0899

Verdught, Ammon L IM
1515 West Truman #301
Independence, MO 64050

Vergara, Gerardo G PTH
31st & Wyandotte
Kansas City, MO 64108
816-753-4600

*Vialle, Gene M AN
Anesthesia Associates of KC
6400 Prospect Suite 138
Kansas City, MO 64132
816-556-3216

Vidals, Victor G GS
1010 Carondelet, Suite 1
Kansas City, MO 64114
816-941-0044

Villanueva, Angela A PTH
St. Joseph Hosp.
1000 Carondelet Dr.
Kansas City, MO 64114
816-942-4400

Viril, Leonardo C GE
6650 Troost Suite 100
Kansas City, MO 64131
816-523-2300

Vogel, Arthur P AN
2215 Drury Lane
Shawnee Mission, KS 66208
913-236-8942

*Vogelsang, Judith K IM
430 W. 11th
Kansas City, MO 64105
816-241-7699

Volk, Geo E OBG
Suite 320 10600 Quivira Road
Overland Park, KS 66215
816-361-4747

Von Lintel, Thomas AN
St. Luke s Hosp.
44th And Wornall Rd.
Kansas City, MO 64111
816-932-2033

Voshall, David L IM
205 W. RD Mize Rd. Suite 308
Blue Springs, MO 64015
816-228-9841

Voth, Harold W IM
4320 Wornall Rd
Kansas City, MO 64111
816-753-3243

Waddell, Thomas H DR
710 Medical Plaza
4320 Wornall Rd
Kansas City, MO 64111
816-531-9481

Waeckerle, Joseph F EM
830 W 54th St.
Kansas City, MO 64112
816-444-7747

Wagner, Paul J AN
Greenwillow Farm Rt 1
Greenwood, MO 64034

Wakefield, Franklin H GP
13065 100th Dr
Sun City, AZ 85351
602-977-7589

Waldman, Richard A PD
24th & Gillham Rd
Kansas City, MO 64108
816-234-3252

Waldman, Steven D AN
P.O. Box 8614
Shawnee Mission, KS 66208

Waldorf, James C PS
Suite 408 4400 Broadway
Kansas City, MO 64111
816-561-6633

Walker, Orville C PD
1515 W Truman Rd
Independence, MO 64050
816-833-0990

Wall, Harry C A
601 E. 63rd St. Suite 301
Kansas City, MO 64110
816-333-6390

Wall, Leonard A OBG
4320 Wornall Rd.
Suite 520
Kansas City, MO 64111
816-531-9400

Wallace, Darryl L OBG
Dept. Of Med. Ed. St. Luke
44th And Wornall Rd
Kansas City, MO 64111
816-932-2047

Walz, Colleen FP
509 North Grand
Lee's Summit, MO 64063
525-240-0000

Warady, Bradley A PD
Children's Mercy Hospital
24th & Gillham Rd.
Kansas City, MO 64108
816-234-3010

*Wasserman, Gary S PD
Childrens Mercy Hosp
24th & Gillham Rd
Kansas City, MO 64108
816-234-3000

Waters, Jeffrey A PD
206 Broadway Medical Bl
4400 Broadway
Kansas City, MO 64111
816-561-8100

Wathanacharoen, Suchint TS
Medical Plaza II 50
4320 Wornall Rd.
Kansas City, MO 64111
816-931-7743

Waxman, Dan A PTH
4040 Main
Community Blood Center
Kansas City, MO 64111
816-753-4040

Waxman, Herbert J IM
Suite 201 6650 Troost
Kansas City, MO 64131
816-363-7710

Waxman, Jane Z PD
12516 W. 85th Terr.
Lenexa, KS 66215

Waxman, Michael J IM
6420 Prospect Suite T303
Kansas City, MO 64132
816-333-1919

Weaver, Michael L IM
4505 Headwood #1
Kansas City, MO 64111
816-931-8881

Weaver, Steven C AN
Suite 600 6700 Troost Ave.
Kansas City, MO 64131
816-276-7901

Webb, Harry E PS
4400 Broadway
Kansas City, MO 64111
816-753-0303

---

* Doctor of osteopathy.

Weber, Karen J IM
4119 Roanoak
Kansas City, MO 64111
816-953-2768
Weiford, Edward C NS
4320 Wornall Rd
Suite 328
Kansas City, MO 64111
816-931-1150
Weinstein, Chas L N
4440 Broadway
Kansas City, MO 64111
816-561-4655
Weir, Robt K OPH
610 Blue Ridge Tower
4240 Blue Ridge Blvd
Kansas City, MO 64133
816-358-3600
Wells, Donald E IM
12025 Goddard
Overland Park, KS 66212
816-444-2098
Wells, James A AN
1008 Valentine Rd
Kansas City, MO 64111
816-931-2120
Wells, Stanley D DR
6420 Prospect
Suite T209
Kansas City, MO 64132
816-523-2400
Welter, Eugene S OM
9001 State Line
Kansas City, MO 64114
816-361-7755
Wenner, Herbert A PD
9711 Johnson Drive
Shawnee Mission, KS 66203
Werth, Claude J P
6420 Prospect Suite T203
Kansas City, MO 64132
816-333-0405
West, Harold D ORS
1515 W. Truman Rd. Suite 401
Independence, MO 64050
816-254-4800
Wheeler, Chas B PH
4320 Wornall Rd
Kansas City, MO 64111
816-931-4141
Whitaker, James H ORS
6420 Prospect
Suite T207
Kansas City, MO 64132
816-444-9000
White, Chas H AN
6518 Overhill Rd
Shawnee Mission, KS 66208
913-362-7721
White, James S U
6700 Troost
208 Rockhill Med. Bldg.
Kansas City, MO 64131
816-444-4780
White, Stoughton F U
4320 Wornall Rd
Kansas City, MO 64111
816-561-7612
White, Wm E NM
6400 Prospect
Kansas City, MO 64132
816-333-5787
Whitman, Daniel S IM
UMKC School Of Medicine
2411 Holmes
Kansas City, MO 64108
816-474-4100
Whitmore, J S R
2929 Baltimore
Kansas City, MO 64108
816-756-1049
Whittaker, Chas K NS
4440 Broadway
Kansas City, MO 64111
816-561-4655
Wien, Irving A GS
Apt. 211D 9536 Rosewood Lane
Shawnee Mission, KS 66207
Wientzen, Arthur S IM
751 E. 63rd 3rd Floor
Kansas City, MO 64110
816-940-8200
Wilber, Robt D GE
4320 Wornall Rd Ste 208
Kansas City, MO 64111
816-531-0552
Wilhelm, Warren F IM
Rt 73 Box 250 R
Lake Ozark, MO 65049
Wilkins, Michael S IM
48 E. 53rd St.
Kansas City, MO 64112
816-756-2673
Wilkinson, Chas B P
600 E. 22nd St.
Kansas City, MO 64108
816-471-3000

Wilkinson, Everett A GS
6810 Linden Lane
Prairie Village, KS 66208
Williams, Jos C OBG
T301 Research Med. Bld.
6420 Prospect
Kansas City, MO 64132
816-444-6888
Williams, Kathleen M PD
373 W. 101st Terr.
Kansas City, MO 64114
816-942-8700
Williams, Paul A FP
802 Aventura Ct.
Lee' Summit, MO 64063
816-373-8210
Williams, Roland D OTO
1010 Carondelet Dr.
Suite 224
Kansas City, MO 64114
816-942-7200
Williams, Starks J PD
1734 E. 63rd St.
Suite 205
Kansas City, MO 64110
816-361-6699
Willoughby, James W A
24-26 S. Main St. Suite A
P. O. Box 271
Liberty, MO 64068
816-781-0902
Willoughby, Jean B IM
1019 W. 69th Terr.
Kansas City, MO 64113
816-523-6434
Wilson, Clifford C CRS
1129 Leisure Lane #8
Walnut Creek, CA 94595
Wilt, David A IM
6420 Prospect Suite T101
Kansas City, MO 64132
816-363-4100
Winer, Herbert J OBG
1000 E. 50th St, Suite 300
Kansas City, MO 64110
816-444-0505
Winer, Nathaniel IM
2301 Holmes
Truman Medical Cente
Kansas City, MO 64108
816-474-4100
Winkelman, Esther B GP
6700 the Paseo
Kansas City, MO 64132
816-444-9900
Winston, Bernard H D
601 E 63rd St
Kansas City, MO 64110
816-363-1451
Winston, Thomas R TS
601 East 63rd St. #302
Kansas City, MO 64110
816-523-8120
Wise, Geo W PD
Children's Mercy Hospital
24th & Gillham
Kansas City, MO 64108
816-234-3664
Wise, Morris F U
6724 Troost Suite #608
Kansas City, MO 64131
816-333-7885
Woehl, Joseph J N
4620 J. C. Nichols Pkwy 502
Kansas City, MO 64112
816-756-0997
Wolf, Jack W IM
6724 Troost Ave Ste 500
Kansas City, MO 64131
816-363-5662
Woltjen, John A GE
2900 Baltimore
Suite 620
Kansas City, MO 64108
816-756-0595
Wood, Barry C IM
4320 Wornall Rd. Suite 208
Kansas City, MO 64111
816-531-0552
Wood, David G DR
340 Penn Park
2928 Baltimore
Kansas City, MO 64108
816-756-1050
Woods, Gerald M PD
12008 Jarboe St.
Kansas City, MO 64145
816-234-3297
Woods, S. Dwight GS
4320 Wornall Rd Rm 216
Kansas City, MO 64111
816-561-6453
Woods, Walton C OM
9004 E. 73rd. St
Kansas City, MO 64133
816-353-4714
Woodward, Wm W IM
3610 South Delaward
Independence, MO 64055
816-356-8877

Wortmann, Robt F OBG
2819 W 66th Terr
Shawnee Mission, KS 66208
913-362-3133
Wright, Jeffrey A PD
24th And Gillham Rd.
Kansas City, MO 64108
816-234-3242
Wright, R P IM
2930 W. 49th St.
Shawnee Mission, KS 66205
Wu, Shuh Min IM
6724 Troost Ave Ste 500
Kansas City, MO 64131
816-363-5662
Wu, Wm Q NS
6700 Troost
Kansas City, MO 64131
816-333-6650
Wurster, Jerry B OPH
4320 Wornall Rd
Kansas City, MO 64111
816-561-2289
Wurster, W J OTO
1010 Carondelet Dr.
Suite 224
Kansas City, MO 64114
816-942-7200
Yeast, John D OBG
4400 Broadway Suite 309
Kansas City, MO 64111
816-932-3585
Yedlin, Jay H AN
1000 E. 50th St. #340
Kansas City, MO 64110
816-333-7484
Yost, John G JR ORS
6420 Prospect Suite T 207
Kansas City, MO 64132
816-444-9000
Youll, Donald V A
1010 Carondelet Dr.
Suite 220
Kansas City, MO 64114
816-941-9130
Youmans, Ronald A N
415 E 63rd St
Kansas City, MO 64110
816-333-2891
Young, James E P
4320 Wornall Rd Ste 716
Kansas City, MO 64111
816-931-4311
Young, Jesse W GP
5443 Mohawk Lane
Shawnee Mission, KS 66205
Young, Mark E PS
4320 Wornall Road Suite 420
Kansas City, MO 64111
816-562-4900
Youngblood, James P OBG
Truman Med Ctr Dept Of Obg
2301 Holmes
Kansas City, MO 64108
816-556-3529
Yu, Mario K N
6700 Troost Ave. Suite 436
Kansas City, MO 64131
816-361-5588
Yuhas, John A IM
4622 Bell
Kansas City, MO 64112
816-252-1691
Zahony, Ivan AN
8255 W. 172nd Terrace
Stilwell, KS 66085
913-681-8072
Zarr, James S PM
6650 Troost Suite 306
Kansas City, MO 64131
816-276-7035
Zerr, Charles H IM
1100 West Truman Rd.
Independence, MO 64050
816-254-3555
Ziemianski, Matthew C OPH
6650 Troost
Kansas City, MO 64131
816-333-7376
Zinn, Marcia V AN
Truman Med. Ctr. Dept Surg.
2301 Holmes
Kansas City, MO 64108
816-556-3216
Zoller, David D PTH
101 Memorial Dr
Kansas City, MO 64108
816-753-5700
Zukaitis, Mark G AN
Anesthesia Associates of KC
6400 Prospect-Suite 138
Kansas City, MO 64132
816-444-1139
Zwerenz, Bruno H P
7900 Lee's Summit Rd.
Kansas City, MO 64139
816-373-4415

---

* Doctor of osteopathy.

102—JASPER

Abu-Libdeh, Ali J RHU
2631 Cunningham
Joplin, MO 64801
417-623-2600

Adams, Robert B IM
3103 Mc Clelland Blvd
Joplin, MO 64801
417-781-3100

Al-Shathir, Saad PM
P. O. Box 2161
Joplin, MO 64803
417-782-4111

Allen, David O U
3105 Mc Clelland Blvd
Joplin, MO 64801
417-623-3703

Bentlage, Charles H GS
1513 W 32nd St
Joplin, MO 64801
417-781-6844

Bhend, David P P
3115 Mc Clelland Blvd
Joplin, MO 64804
417-781-6334

Bopp, J. Ronald OBG
3115 Mc Clelland Blvd
Joplin, MO 64801
417-781-6932

Borello, Dan J OBG
3101 Mc Clelland Blvd.
Joplin, MO 64801
417-624-1714

Brandon, Frederick M R
P. O. Box 2009
1722 W. 27th St
Joplin, MO 64803
417-624-5882

Breipohl, Gary W AN
1329 E. 32nd St. Suite 2
POB 3353
Joplin, MO 64803
417-623-2526

Brigden, Robert B AN
2604 Picher
Joplin, MO 64801
417-623-1211

Browning, Ronald A IM
3402 McIntosh Circle Dr.
Joplin, MO 64804
417-781-9200

Burch, John E OBG
122 Moorings Park Dr.
Apartment 208
Naples, FL 33942
813-262-5274

Burleigh, Bruce W ORS
Joplin Orthopaedic Surg Inc
P. O. Box 2507
Joplin, MO 64803
417-781-2807

Carnes, Victor M PTH
2700 Mc Clelland
Suite 205 Bldg. B
Joplin, MO 64801
417-623-6330

Carter, Robert L HEM
2727 Mc Clelland
Joplin, MO 64801
417-782-6118

Chandramohan, Nanjappa IM
616 W. Centennial
Carthage, MO 64836
417-358-4680

Chapman, Ramona Marie ONC
P. O. Box 2644
3302 Mc Intosh Circle
Joplin, MO 64803
417-782-6630

Chase, Ned B ORS
Joplin Orthopaedic Surg Inc
P. O. Box 2507
Joplin, MO 64803
417-781-2807

Chellappa, Danu IM
Suite 215 2817 Mc Clelland
Joplin, MO 64801
417-781-9197

Chesney, George W AN
2604 Picher St
Joplin, MO 64801
417-623-1211

Clark, Larry K OBG
3101 McClelland Blvd.
Joplin, MO 64801
417-624-1714

Cohle, Richard R IM
301 E Chestnut St
Carthage, MO 64836
417-358-2689

Conde, Gary A FP
2601 Cunningham Lower Level
Joplin, MO 64801
417-781-0836

Corcoran, Francis H CD
P. O. Box 2788
Joplin, MO 64803
417-781-5387

Cotner, Mark S GS
3115 McClelland
Joplin, MO 64801
417-782-7090

Craig, Irwin T OBG
2039 Gulf of Mexico Dr
Longboat Key, FL 33548
813-383-2266

Crispell, Lawrence S OTO
1512 Pelican Point Drive
Sarosoto, Fl 33581
417-623-6262

Crosby, William H ONC
3302 McIntosh Circle
Joplin, MO 64801
417-782-6630

*Dagen, Daniel L N
2700 McClelland
Building B Suite 203
Joplin, MO 64801
417-782-1483

Dandridge, Walter C GS
2601 Cunningham
Joplin, MO 64801
417-781-4404

Davis, Charles S CD
2817 Mc Clelland Blvd.
Suite 214
Joplin, MO 64801
417-623-7448

*Dean, Joel M N
2700 McClelland Blvd. #203
Joplin, MO 64801
417-782-8006

*Deffenbaugh, Larry D IM
2700 McClelland Blvd
Bldg B Suite 206
Joplin, MO 64801
417-782-4701

Dement, Oman E OBG
1221 Mc Intosh Circle Dr.
Joplin, MO 64801
417-624-1711

DeTar, Burleigh E GP
Rt. 7 Box 1I
Joplin, MO 64801
417-623-4862

Dixon, Herbert K OPH
3201 Mc Intosh Circle Dr.
Joplin, MO 64801
417-624-8390

Doody, Dian L PD
2902-A McClelland Suite #1
Joplin, MO 64801
417-782-1994

Doody, Patrick T NEP
Route 5, Box 47
Joplin, MO 64801
417-782-5000

Esch, John G ORS
Joplin Orthopaedic Surg Inc
P. O. Box 2507
Joplin, MO 64803
417-781-2807

Esther, John R PTH
2700 Mc Clelland
Suite 205 Bldg. B
Joplin, MO 64801
417-623-6330

Ferguson, Robt M GP
508 East 32nd Street
Joplin, MO 64801
417-781-5220

Fritsch, Andrew J IM
2525 Jackson St
Joplin, MO 64801
417-623-1333

Frogge, Jim D U
3105 Mc Clelland Blvd.
Joplin, MO 64801
417-623-3703

Gardner, Joe A OBG
2700 Mc Clelland Blvd.
Suite 109 Bldg A
Joplin, MO 64801
417-782-2660

Gaston, Samuel L R
3115 Mc Clelland
Joplin, MO 64801
417-624-1920

Gavankar, Sharad S P
2606 Cunningham St.
Joplin, MO 64801
417-623-1415

Goff, John E FP
2601 Cunningham
Lower Level
Joplin, MO 64801
417-782-3600

Graham, Joseph M CDS
2817 Mc Clelland
Suite 211
Joplin, MO 64801
417-782-2190

Grebe, T. Keith OBG
1221 Mc Intosh Circle
Joplin, MO 64801
417-624-1711

Green, James R OBG
1221 Mc Intosh Circle
Joplin, MO 64801
417-624-1711

Grim, Edward M U
3105 Mc Clelland Blvd
Joplin, MO 64801
417-623-3703

Grubb, Paul H GP
607 Washington
Galena, KS 66739

Habermann, James H PTH
2700 Mc Clelland Bldg B 205
Joplin, MO 64801
417-623-6330

Hall, Marvin F R
116 Conner
Joplin, MO 64801
417-624-0716

Hallaba, M. A. S. GS
3315 McIntosh Circle Drive
Joplin, MO 64801
417-782-1110

*Hamar, Denise M PD
2902A McClelland Blvd Ste 1
Joplin, MO 64804
417-782-1994

*Hamilton, Thomas K GP
2700 Mc Clelland Blvd.
Bldg B Suite 213
Joplin, MO 64804
417-781-6722

Hari, Magaral S AN
2902 B. Mc Clelland Blvd.
Suite 10
Joplin, MO 64801
417-781-6661

Harrison, Phil W IM
1001 McIntosh Circle Dr.
Joplin, MO 64801
417-623-5250

Hatlelid, R. Robert NEP
Rt. 5, Box 137F
Joplin, MO 64801
417-782-5000

Hilton, Paul E D
2700 Mc Clelland Bldg A 107
Joplin, MO 64801
417-624-1331

Holtzman, Samuel D
10 N. Summit Ave.
Park Ridge, IL 60068
312-225-5979

Hurst, Wilfred W ORS
1916 Murphy Blvd.
Joplin, MO 64803
417-624-6620

Jeans, Virgil E GS
660 Jaccard Pl
Joplin, MO 64801
417-623-8431

*Jordan, Earl L Jr OPH
702 East 34th St.
Joplin, MO 64801
417-781-0044

Judge, Mark A OPH
2401 Jackson Ave.
Joplin, MO 64801
417-781-3630

Klontz, William J P
P. O. Box 2526
Joplin, MO 64801
417-781-2410

Levanvo, William IM
1329 E. 32nd St. #3
Joplin, MO 64801
417-623-1362

Loesch, J. John AN
1329 E. 32nd St. Box 3353
Joplin, MO 64801
417-623-2526

*Long, Chester I IM
2700 Mc Clelland Blvd.
Bldg B Suite 209
Joplin, MO 64801
417-782-4601

Maclaughlin, James C IM
3103 Mc Clelland Blvd
Joplin, MO 64801
417-781-3100

Majzoub, Hish S NS
2902 B Mc Clelland Suite 7
P. O. Box 2602
Joplin, MO 64803
417-781-4733

Mangalat, Narayanan K CDS
2817 Mc Clelland Blvd.
Suite 205
Joplin, MO 64801
417-781-1714

Manire, John E EM
3922 Collegeview Dr.
Joplin, MO 64801
417-781-2727

---

* Doctor of osteopathy.

Martin, Clarence A GS
1513 W 32nd
Joplin, MO 64801
417-623-6114
McDonald, Margaret E PTH
2700 McClelland Bldg B-205
Joplin, MO 64801
417-623-6330
McDonald, Michael G AN
2902 B McClelland Suite 10
Joplin, MO 64801
417-781-6661
McGonigle, James P OPH
2630 Cunningham
Joplin, MO 64804
417-781-6330
McGonigle, Michael M OTO
2620 Cunningham
Joplin, MO 64801
417-781-4613
Mehaffy, Orville A FP
2817 Mc Clelland Blvd.
Suite 108
Joplin, MO 64801
417-782-6600
Meredith, William R OPH
2817 Mc Clelland Suite 120
Joplin, MO 64801
417-782-1333
Montgomery, John H III EM
2727 Mc Clelland Blvd.
Joplin, MO 64801
417-781-2727
Moore, Kelly R PD
3107 McCelland
Joplin, MO 64801
417-781-3121
Moore, Thomas B CD
P. O. Box 2788
Joplin, MO 64803
417-781-5387
Mueller, Adolph R ORS
Joplin Orthopaedic Surg. Inc
P.O. Box 2507
Joplin, MO 64803
417-781-2807
*Myers, Ronald C EM
2727 McClelland Blvd.
Joplin, MO 64801
417-781-2727
Nagle, Michael G GS
2601 Cunningham
Joplin, MO 64801
417-781-4404
Newman, William R PD
P.O. Box 2474
3333 Mc Intosh Circle 6
Joplin, MO 64803
417-782-8830
Nickell, Michael D IM
P.O. Box 2708
Joplin, MO 64803
417-781-7110
*Orear, James E EM
2727 McClelland Blvd.
Joplin, MO 64801
417-625-2300
Patterson, Donald R FP
3315 McIntosh Circle
Joplin, MO 64801
417-624-1520
Patterson, Grover S FP
510 S Main St
Carthage, MO 64836
417-358-2881
Pirotte, Thomas P FP
516 Center
Sarcoxie, MO 64862
417-548-2121
Pottenger, L. Kenneth DR
P. O. Box 2009
1722 W. 27th
Joplin, MO 64801
417-624-5882
Powell, Robert G IM
RR 1 Box 408
Riverton, KS 66770
316-848-3828
Pryor, Ira Joe AN
2902B Mc Clelland Blvd.
Suite 10
Joplin, MO 64801
417-781-6661
*Pyron, Jimmy W EM
1102 W. 32nd St.
Joplin, MO 64801
417-623-2801
*Rankin, Wendell D IM
P. O. Box 2624
Joplin, MO 64803
417-624-1432
Rathnakumar, Kalaichelvi AN
2902 b Mc Clelland Blvd.
Suite 10
Joplin, MO 64801
417-781-6661
Reddy, Vodur C U
2700 Mc Clelland Blvd.
Bldg B Suite 214
Joplin, MO 64801
417-782-0045
Roberts, Howard H GYN
3101 Mc Clelland
Joplin, MO 64801
417-624-1714
Royce, James J GP
16th And Miner Sts.
Sarcoxie, MO 64862
417-548-3334
Sabapathy, Shan CD
2817 Mc Clelland Suite 225
Joplin, MO 64801
417-781-4260
Saneman, Paul P OBG
2700 Mc Clelland Blvd
Bldg A Suite 108
Joplin, MO 64801
417-781-4530
Scacewater, Rick PUD
2700 Mc Clelland Blvd.
Bldg B Suite 216
Joplin, MO 64801
417-782-8350
Schaper, Daniel D ORS
2700 McClelland Blvd.
Joplin, MO 64801
417-781-2807
Schmidt, Herbert J GYN
2700 Mc Clelland
Bldg B Suite 204
Joplin, MO 64801
417-782-1800
Schoeberl, C. B IM
3111 East 4th
Joplin, MO 64801
*Schoenfeld, Roger H U
P. O. Box 2220
702 E. 34th
Joplin, MO 64803
417-781-7220
*Schooler, Richard D OBG
702 E. 34th St. Suite 100
Oak Hill Medical Plaza
Joplin, MO 64801
417-623-8184
Shah, Ramesh R OPH
2902 B McClelland Blvd.
Suite 8
Joplin, MO 64801
417-781-2616
Shanahan, Mary P OBG
2530 Maiden Lane
Joplin, MO 64801
417-623-6525
Sherrod, Duane W PS
3333 McIntosh Circle Ste. 3
Joplin, MO 64804
417-624-1520
Shriver, Ronald G DR
3817 Rustwood Rd.
Joplin, MO 64801
417-624-1920
*Shuler, Lewis D CD
P.O. Box 2788
Joplin, MO 64803
417-781-5387
Simmons, Jess S D
2700 Mc Clelland Blvd
Bldg A Suite 107
Joplin, MO 64801
417-624-1331
Singleton, Marvin A OTO
3401 McIntosh Circle
Joplin, MO 64801
417-781-2040
Skelley, Mark J ONC
2727 Mc Clelland
Joplin, MO 64801
417-782-6118
Smith, Dennis W IM
2700 Mc Clelland
Bldg B Suite 215
Joplin, MO 64801
417-623-5610
Smith, Roland T GS
Medical Arts Bldg
Joplin, MO 64801
417-624-1000
Smith, W. Russell GS
315 Euclid
Carthage, MO 64836
417-358-2911
St. John, Donald R EM
1011 S. Stonehaven
Marshall, MO 65340
816-886-5780
Stidman, Frederick C PD
3107 Mc Clelland Blvd
Joplin, MO 64801
417-781-3121
Stinnett, D. Mitchell CD
2817 Mc Clelland Blvd.
Suite 211
Joplin, MO 64801
417-782-2190
Straub, David L A
2902 Mcclelland Blvd.
Suite 2
Joplin, MO 64801
417-782-1343
Subramanian, S. IM
1515 Hazel
Carthage, MO 64836
417-358-8900
Teeter, Brian H IM
3333 McIntosh Circle Dr. #1
Joplin, MO 64801
417-781-2101
Turfboer, Robert P
2701 West 32nd St.
Joplin, MO 64801
417-782-0168
*Unruh, Gregory L GP
2423 1/2 Fairlawn
Carthage, MO 64836
417-358-6025
*Venter, John L IM
3402 McIntosh Circle
Joplin, MO 64801
417-623-7005
Vinyard, Jack L GP
2329 Jackson
Joplin, MO 64801
417-781-1132
Walker, Paul W U
1022 N Sergeant
Joplin, MO 64801
417-624-3035
Ward, Mark FP
P. O. Box 2684
Joplin, MO 64803
417-624-1520
Whitten, M. Foster GS
Rt 4
Carthage, MO 64836
417-358-4594
Wilcox, Ruth E PD
714 W. 25th St.
Joplin, MO 64801
417-623-6563
Willcoxon, Robert L GS
2601 Cunningham
Joplin, MO 64801
417-781-4404
Williams, Richard F FP
1620 Missouri
Carthage, MO 64836
417-358-3411
Wilson, Alice H FP
Rt. 1 Box 163
Neosho, MO 64850
417-624-7229
Young, Calvin C R
3115 Mc Clelland
Joplin, MO 64801
417-624-1920

106—JEFFERSON

Albano, Benj I GS
P O Box 380
Crystal City, MO 63019
314-937-8642
Albano, Maria C GP
124 Mississippi Ave.
Crystal City, MO 63019
314-937-1766
Allbee, Roger H GS
Rt. #1 Box 44
Festus, MO 63028
Ashcraft, Walter C TS
2310 Truman Blvd.
P.O. Box 199
Crystal City, MO 63019
314-937-1585
Bai, Samuel S CD
107 Walnut St
Festus, MO 63028
314-937-2116
Belen, Marietta PD
County Wide Pediatrics Inc.
103 North Mill St.
Festus, MO 63028
314-937-0707
Blank, Michael K GS
P.O. Box 507
De Soto, MO 63020
314-586-2226
Bonifacio, Andres S OBG
1006 Herculaneum Ind Dr.
P.O. Box 578
Herculaneum, MO 63048
Britt, Cornelius L ORS
400-B S. Truman Blvd.
Crystal City, MO 63019
314-937-4041
Chanduwadia, Dossu J OBG
815 E. Main
Flat River, MO 63601
314-586-8958

---

* Doctor of osteopathy.

Charles, Nallathambi FP
P.O. Box 69
Festus, MO 63028
314-937-9199

Deleste, Carlos J U
426 Main
Festus, MO 63028
314-937-9199

Donnell, Harold E FP
700 N Main
De Soto, MO 63020
314-586-2213

Donnell, Robt H DR
113 Crystal Heights Rd
Post Office Box 230
Crystal City, MO 63019
314-937-4641

Elterman, Joseph J IM
Box 186
Crystal City, MO 63019
314-937-9336

Foy, Thomas M PD
P.O. Drawer B
Crystal City, MO 63019
314-937-8040

Gwartz, Brian L AN
13200 Plattin School Rd.
Festus, MO 63023
314-933-0465

Houttuin, Erik U
Jefferson Urological, Inc.
Rt 4, Industrial Dr.
Festus, MO 63028
314-937-8883

Jamaluddin, Mohideen A IM
420 Main St.
Festus, MO 63028
314-937-9199

Johnson, Gordon L PTH
Jefferson Memorial Hospital
Festus, MO 63028
314-933-1620

Judge, Walter T GS
1004 Taylor Ave
Crystal City, MO 63019
314-937-3246

Junker, James A DR
16 Fox Meadows
St. Louis, MO 63127
314-843-0071

Kim, Tae S GS
P. O. Box 408
Crystal City, MO 63019
314-937-6601

Koreckij, Theodore ORS
124 Mississippi
Crystal City, MO 63019
314-937-1766

Lee, Jung H CD
P. O. Box 309
Crystal City, MO 63019
314-937-0817

Maranan, Diosdado L EM
3895 Jeffco Blvd.
Arnold, MO 63010
314-464-5474

Park, Duk J IM
2340 Truman Blvd.
Crystal City, MO 63019
314-937-9322

Park, Kun H OBG
P. O. Box 667
Med Village Suite 106
Festus, MO 63028
314-937-6630

Patel, Indu B IM
1683 Marriott Lane
P.O.Box 308
Barnhart, MO 63012
314-464-7032

Reed, Martha A IM
11318 Highway 21
Hillsboro, MO 63050
314-586-6820

Shaplin, Alfred D DR
12668 Westport Dr.
St. Louis, MO 63146

Snidle, William F OBG
2320 Jefferson Medical Plaza
Crystal City, MO 63019
314-937-1545

Spurrier, Mark H OPH
2835 Shenandoah.
St. Louis, MO 63104
314-937-8855

Verzola, Eufemio G GS
1004 Industrial Dr.
Herculaneum, MO 63048
314-937-8675

Yoo, Chong-sup P
204 South Second St.
Festus, MO 63028
314-937-1704

110—JOHNSON

Astik, Jayendra B IM
Burkarth Road
Warrensburg, MO 64093
816-429-2128

Cooper, Robt L II OBG
P.O.Box 458
Warrensburg, MO 64093
816-747-6162

Cooper, Robt L GP
P.o. Box 458
Warrensburg, MO 64093
816-747-6162

Corvin, George J AN
711 Tyler Street
Warrensburg, MO 64093
816-747-2824

Dyer, Curtis W FP
220 E. Culton
Warrensburg, MO 64093
816-679-3118

Folkner, Albert L GP
222 E. Culton St.
Warrensburg, MO 64093
816-747-5114

Glover, David FP
220 E. Culton
Warrensburg, MO 64093
816-747-5114

Gonzalez, Mario G R
Johnson Co Mem Hosp
Warrensburg, MO 64093
816-747-8415

Hanna, Hugh A GS
Route 7
South Mitchell St.
Warrensburg, MO 64093

Johnson, Chas S IM
P. O. Box 8
Warrensburg, MO 64093

Jones, Keith D FP
Rt. 2, Burkarth Rd.
Warrensburg, MO 64093
816-747-9156

Lederer, Chas M Sr FP
617 Clark
Warrensburg, MO 64093
816-747-5711

Maxson, Theodore R A
220 E Culton
Warrensburg, MO 64093
816-747-5114

Shridharani, Mahavir K IM
Burkarth Road
Warrensburg, MO 64093
816-429-2128

Sicat, Alfonso V ORS
510 E Gay
Warrensburg, MO 64093
816-747-8161

*Wescott, Thomas P FP
217 S. Market
Holden, MO 64040
816-732-4311

115—LACLEDE

Bealer, Louis A GS
732 S Madison
Lebanon, MO 65536
417-532-9161

Carrington, Howard W GP
P. O. Box 1142
Lebanon, MO 65536
417-532-6151

Caster, Philip W FP
P. O. Box 1142
Lebanon, MO 65536
417-532-6151

*Courter, Gary M GP
P. O. Box 1142
Lebanon, MO 65536
417-532-6151

Gapasin, Ernesto M GS
583 S. Washington
Lebanon, MO 65536
417-532-9171

Hite, Dennis E FP
P. O. Box 1142
Lebanon, MO 65536
417-532-6151

Kampschmidt, Donald L FP
1409 N. Jefferson St.
Carrollton, MO 64633
417-532-6151

Tegtmeyer, Chris FP
P. O. Box 1142
Lebanon, MO 65536
417-532-6151

118—LAFAYETTE-RAY

Baldwin, Theodore R GP
1236 Jesse James Rd
Excelsior Spgs., MO 64024
816-637-5561

Best, Robt B EM
4300 W 111th Terr.
Shawnee Mission, KS 66211
913-649-1940

Blackman, Jacques D FP
P. O. Box 756
Higginsville, MO 64037
816-584-7751

Boydston, Catherine O FP
107 S 2nd St
Odessa, MO 64076
816-633-5511

Boydston, Wyatt W FP
107 S 2nd St
Odessa, MO 64076
816-633-5511

Brady, Hugh S GP
RR 1
Concordia, MO 64020
816-463-2630

Cock, Thos B GP
802 E Main St
Richmond, MO 64085
816-776-2201

Cope, Jos S GS
The Point
Lexington, MO 64067
816-259-2634

Crayton, Billy G FP
P.O. Box 41
Waverly, MO 64096
816-493-2211

Davault, Geo K GP
Medical Center
Richmond, MO 64085
816-776-2201

DeMotte, Jeanne M FP
Hwy 13 South
P O Box 68
Richmond, MO 64085
816-776-5654

George, Theodore GS
P O Box 512
Richmond, MO 64085
816-776-5654

Kuangparichat, Manoch IM
1205 N. Jesse James Rd.
Excelsior Spgs., MO 64024

Lai, Hsien-ell GP
505 W. 34th
Higginsville, MO 64037
816-584-3720

Latif, Ashar IM
1026 Main
Lexington, MO 64067
816-259-2216

LaHue, William C GS
1026 Main
Lexington, MO 64067
816-259-2216

McFadden, Gene A GP
Kelling Clinic
Waverly, MO 64096
816-493-2211

Meyer, Jerry L FP
905 Main St
Concordia, MO 64020
816-463-7966

Nguyen, Lan K GS
Kelling Clinic Inc.
P.O. Box 169
Waverly, MO 64096
816-493-2211

Pavlu, Robt R GP
Kelling Clinic Hospital
Waverly, MO 64096
816-493-2211

Qadir, Abdul PD
1026 Main St.
Lexington, MO 64067
816-259-2216

Riley, Chas T FP
220 Highway 13 South
Richmond, MO 64085
816-776-6945

Scowley, John E GP
Rt. 4, Box 47
Richmond, MO 64085
816-776-2231

Tobin, Marla J FP
P. O. Box 756
Higginsville, MO 64037
816-584-7737

Vajaranant, Manit OBG
1026 Main
Lexington, MO 64067
816-259-2216

Ward, Joe W GP
1004 Francis
Lexington, MO 64067
816-259-3284

---

* Doctor of osteopathy.

Williams, John W OM
801 W 15th
Oak Grove, MO 64075
816-625-4772

120—LAKE OF THE OZARKS (Camden-Miller-Morgan Counties)

Buehler, Carl T Jr GP
6 S Maple St
Eldon, MO 65026
Oickerson, William J IM
Rt. 1, Box 188-18
Osage Beach, MO 65065
314-348-2723
Fotopoulos, Chris K GS
P O Box 128
Osage Beach, MO 65065
314-348-3060
Francis, Roger A OR
Lake of the Ozarks Gen Hosp.
Osage Beach, MO 65065
314-348-3181
*Galdamez, John T IM
Lake of the Ozarks Gen Hosp
Osage Beach, MO 65065
314-346-3342
Garrison, Theodore W GP
P O Box 356
Camdenton, MO 65020
314-348-3181
Gunn, Jack GP
P. O. Box 160
Versailles, MO 65084
314-378-4666
Hayden, Melvin R GP
Hayden Medical Services LTD
P. O. Box 1140
Camdenton, MO 65020
314-346-5624
Holley, Oonald B GP
Hayden Medical Services LTD
P. O. Box 1140
Camdenton, MO 65020
314-346-5624
Kauffman, Ruth GP
P. O. Box 160
Versailles, MO 65084
314-378-4666
Lyle, Robt R GP
P. O. Box 160
Versailles, MO 65084
314-378-4666
O'Connor, Edward F OPH
P. O. Box 277
Versailles, MO 65084
314-378-5269
Pelegrin, Robert J U
P. O. Box 1120
Osage Beach, MO 65065
314-348-2345
Smeltzer, Frederick M R
Lake of the Ozarks Hosp.
Osage Beach, MO 65065
314-348-3181
Tharp, Judith L EM
The Landmark Clinic
P. O. Box Z
Camdenton, MO 65020
314-346-4054
Tietjen, Fred O ORS
P. O. Box 187
Osage Beach, MO 65065
314-348-3181
Washburn, John L GP
P. O. Box 109, Bank Bldg.
Versailles, MO 65084
314-348-4203

135—MID-MISSOURI (Phelps-Crawford-Dent-Pulaski-Maries Counties)

Bartlett, Hugh C GS
Independence Square
1501 E. 10th St. Ste B
Rolla, MO 65401
314-364-6051
Bass, Barry J GS
1501 E. 10th St. Suite A
Rolla, MO 65401
314-364-7799
Bass, James J GP
1201 Hauck Dr.
Rolla, MO 65401
314-364-8818
Baumann, Albert R GP
Steelville, MO 65565
314-775-2119
Bhati, Oeo K GS
P. O. Box 428
Salem, MO 65560
314-729-3129
Breeden, Richard L N
Suite 130 1100 W. 10th
Rolla, MO 65401
314-364-1218
Butts, James O GP
100 Adrian
Rolla, MO 65401
314-364-4356
Cook, Katherine S PO
11th & Bishop
Rolla, MO 65401
314-364-4870
Oeardeuff, Owight L IM
Rt 2 Box 670
Rolla, MO 65401
314-364-1322
Oeboard, James W AN
1000 W. 10th St.
Rolla, MO 65401
314-364-3100
Drake, Avery A OPH
4357 N 106th Ave
Phoenix, AZ 85039
Oraper, Bernard L OBG
P. O. Box 2374
Greeley, CO 80632
303-330-3119
Elders, Frank A GP
Rt 1 Box 69A
Cuba, MO 65453
314-885-2311
Feind, Earl E GP
P. O. Box B
Rolla, MO 65401
314-364-4226
Felts, James A FP
1100 W. 10th St.
Rolla, MO 65401
314-364-4226
Fortin, Jorge A OBG
1100 W. 10th St.
Rolla, MO 65401
314-364-8100
Grannemann, H. Neal PTH
1000 W 10th St
Rolla, MO 65401
314-364-5060
Heilbrunn, Ilse OS
1327 Truman Ave.
Rolla, MO 65401
314-341-2710
Huss, Randall O FP
1100 W. 10th St.
Rolla, MO 65401
314-238-2725
Huster, Robert M OBG
1501 E. 10th St. Suite O
Rolla, MO 65401
314-364-0500
Jenkins, Edward R FP
Roubidoux Medical Park
Waynesville, MO 65583
314-774-6423
Linde, John W OPH
1100 W. 10th St.
Rolla, MO 65401
314-341-2230
Marti, Larry B ORS
1100 W 10th St
Rolla, MO 65401
314-341-2678
Mitchell, Roy E GP
Rt. 5 Box 36
Salem, MO 65560
314-729-3252
Myers, James M GP
P.O. Orawer O
Rolla, MO 65401
314-341-4284
Paskon, Seth IM
303 N Jackson & 4th. Street
Salem, MO 65560
314-729-6036
Pojanasomboon, Pichat OPH
1100 W 10th St
Rolla, MO 65401
314-364-5600
Russell, Barbara E PO
11th and Bishop
Rolla, MO 65401
314-364-4870
Saunders, Carol S PD
11th and Bishop
Rolla, MO 65401
314-364-4870
Slahorek, George J PTH
Gen Leonard Wood Army Hosp
Pathology Oept
Ft Leonard Wood, MO 65473
314-368-9661
Smith, Ted P FP
S&S Acres, Route 2
Rolla, MO 65401
314-364-4226
Stricker, Eamil A GS
10th & Bishop
Rolla, MO 65401
314-364-3599
Stricker, William E IM
10th & Bishop
Rolla, MO 65401
314-341-3555
Tang, Teodoro GS
P. O. Box 437
Salem, MO 65560
314-729-6800
Wan, Shaw P U
632 South Bishop
Rolla, MO 65401
314-364-1014
White, Eugene F OBG
1100 W 10th St.
Rolla, MO 65401
314-364-8100
Wiench, Oelane F PTH
1000 West 10th St
Rolla, MO 65401
314-364-5060
Witt, Fred W P
1100 W. 10th St. #165
Rolla, MO 65401
Young, Robt B FP
700 W 11th St
Rolla, MO 65401
314-364-4870

138—MINERAL AREA (St. Francois-Iron-Madison-Washington-Reynolds-Bollinger Counties)

Auner, John D FP
200 St. Mary St.
P. O. Box 339
Pilot Knob, MO 63663
314-546-7323
*Beyer, Phillip M FP
209 W. Main St.
Fredericktown, MO 63645
314-783-3305
Cancelada, Juan OBG
323 North "A" Street
Farmington, MO 63640
314-756-6751
Carleton, Chas E GP
Med Arts Clinic
Farmington, MO 63640
314-756-6751
Chastain, Chas W FP
Family Health Care
815 E. Main St.
Flat River, MO 63601
314-431-6600
Oatta, Narendar K OBG
St. Francois OBG, LTO
Box 210
Bonne Terre, MO 63628
314-937-8668
Davis, Thomas N P
P. O. Box 341
Mountain View, MO 65548
Oennis, Wm P GP
1000 N Main St
Oesloge, MO 63601
314-431-4414
Oent, George W OBG
Medical Arts Clinic
301 West Liberty
Farmington, MO 63640
314-756-6751
Oettmer, Robt F GP
128 W Russell
Ironton, MO 63650
314-546-2415
Oierker, Harry O FP
301 W Liberty St
Farmington, MO 63640
314-756-6751
Oua, Prem N PO
Farmington State Hospital
Farmington, MO 63640
314-756-6792
Ellegood, James H GP
4219 Orambuie #B
St. Louis, MO 63129
314-776-7080

---

* Doctor of osteopathy.

Farmer, Norma D P
15 Westmount Dr.
Farmington, MO 63640
314-756-7803
Gray, Walter C GP
301 W Liberty
Farmington, MO 63640
314-756-6751
Griffin, Darrell L D
503 Potosi
Farmington, MO 63640
314-756-8908
Grix, Gary J IM
Medical Arts Clinic
Farmington, MO 63640
314-756-6751
Hamburg, Eric D IM
301 W. Liberty
Farmington, MO 63640
314-756-6751
Hardy, Stanton L FP
1000 N Main St
Desloge, MO 63601
314-431-3128
Herath, Adolph J P
P. O. Box 614
Farmington, MO 63640
314-756-4578
Huckstep, Robt A IM
RR 1, P.O. Box 3
Farmington, MO 63640
314-756-5340
Karraker, Alvan G GP
301 W Liberty St
Medical Arts Clinic
Farmington, MO 63640
314-756-6751
Kim, Longius H GS
2 Professional Building
200 Henry Bub Dr
Potosi, MO 63664
314-438-6285
Manusmare, Usha P GP
Farmington State Hospital
Farmington, MO 63640
314-756-6792
Mardini, Edward E GS
P. O. Box 68
Bonne Terre, MO 63628
McKinney, William O Jr. FP
202 W. Russell
Ironton, MO 63650
314-546-7311
Menne, Marvin C GP
109 N. Main St.
Ironton, MO 63650
314-546-7437
Miller, Burney A FP
P. O. Box 128
Lutesville, MO 63762
314-238-3669
Mullen, Jack IM
509 St. Francis Road
Bonne Terre, MO 63628
314-358-3492
Oliver, George A GS
Medical Arts Clinic
Farmington, MO 63640
314-756-6751
Parker, Gary J IM
438 North Washington
Farmington, MO 63640
314-756-8929
Pichardo, Javier A P
701 Eastbridge Dr.
St. Peters, MO 63376
Raksakulthai, Vinai OBG
703 W Main St
Fredericktown, MO 63645
314-783-5589
Sermchief, Chaiyarat OBG
501 Armory St.
Fredericktown, MO 63645
314-783-2342
Simpelo, Rustico V GS
Simpelo Medical Clinic Inc.
200 Henry Bub Dr #4
Potosi, MO 63664
314-438-5408
Tuttle, Jay F P
526 Sara Lane Condo 12
Creve Coeur, MO 63141
Vibulakaopun, Pairat IM
527 Benham St.
Bonne Terre, MO 63628
314-358-5577
Watkins, Geo L GS
P. O. Box 1745
Rancho Santa Fe, CA 92067
Weible, Nancy E FP
815 E. Main
Flat River, MO 63601
314-431-6600

142—MONITEAU

Fulks, Richard B GP
Box 410
California, MO 65018
314-796-2523
Gallagher, Lionel M GP
102-A Dahler St
California, MO 65018
314-796-3312
Latham, Kenyon S GP
P. O. Box 166
California, MO 65018
314-796-2541

146—MONTGOMERY

Byland, Saml J GP
120 Hudson St
Wellsville, MO 63384
314-684-2208

150—NORTHEAST (Clark-Lewis-Marion-Ralls-Scotland-Shelby Counties)

Ahlum, Sandra J OBG
P.O. Box 311
Hannibal, MO 63401
314-221-5250
Avila, Estrella Z IM
110 Magnolia Ave
Hannibal, MO 63401
314-221-7176
Avila, Patricio C GS
110 Magnolia Ave
Hannibal, MO 63401
314-221-7176
Bach, Lysle M R
4209 W Ely Rd
Hannibal, MO 63401
314-221-5500
Bell, Robt M P
165 Lake Apollo
Hannibal, MO 63401
314-221-2120
Borromeo, Carlos J PO
603 Country Club Dr
Hannibal, MO 63401
314-221-4368
Buben, Robt W GS
2910 St Marys Ave
Hannibal, MO 63401
314-221-0996
Bukstein, Michael J GS
P.O. Box 311
Hannibal, MO 63401
314-221-5250
Burns, Francis R OBG
11 San Reno Dr.
Hannibal, MO 63401
314-221-0611
Burton, Dale F GS
P O Box 311
Hannibal, MO 63401
314-221-5250
Clisham, John F U
P. O. Box 127
Hannibal, MO 63401
314-221-2744
Comer, Julian R DR
Rt. 3 Box 147
New London, MO 63459
314-221-5500
Florendo, Federico N PTH
Levering Hosp
Hannibal, MO 63401
314-221-1127
Florendo, Purificacion T OBG
Tower Plaza Clinic Rd
Hannibal, MO 63401
314-221-2116
Foreman, Phillip B GS
P O Box 311
Hannibal, MO 63401
314-221-5250
Glickman, Andrew S AN
460 Country Club Drive
Hannibal, MO 63401
314-221-6951
Greene, Harry L CO
2500 Pleasant St.
Hannibal, MO 63401
314-221-0364
Ha, Richard J IM
33 Satellite Dr.
Hannibal, MO 63401
314-221-5250
Hall, Stanley G PTH
Sycamore Spring
RFD #2
Hannibal, MO 63401
314-221-5646
Hamlin, Wyeth IM
P. O. Box 311
Hannibal, MO 63401
314-221-5250
*Hevel, Robert W FP
410 Linnwood Dr.
Palmyra, MO 63461
314-769-2231
Jayanandaiah, Hiremathada IM
4 Briarwood
Hannibal, MO 63401
314-221-5250
Johnson, Lent C FP
P.O. Box 311
Hannibal, MO 63401
314-221-5250
Karp, Robert A P
P.O.Box 708 109 Virginia
Hannibal, MO 63401
314-221-2120
Kerkemeyer, George IM
2910 St. Mary s Ave.
Hannibal, MO 63401
314-221-0996
Kruse, Carl R FP
706 S Dickerson St
Palmyra, MO 63461
314-769-2335
Lichty, Chas A GP
Shelbina, MO 63468
314-588-4476
314-588-4476
Mann, James K PD
4074 Hillside Drive
Hannibal, MO 63401
314-221-5250
McHardy, Bryson R Jr. PO
P.O. Box 311
Hannibal, MO 63401
314-221-5250
Memken, John A FP
1500 Country Club Dr.
Hannibal, MO 63401
314-221-0996
Palmer, Russell H GP
706 S Dickerson St
Palmyra, MO 63461
314-769-2335
Plowman, Edward M OPH
109 Virginia St.
Hannibal, MO 63401
314-221-1585
*Porter, Edward A GP
412 Center St.
Hannibal, MO 63401
314-221-0056
Rapp, Earl L GP
Box 311
Hannibal, MO 63401
314-221-5250
*Rice, William E GP
400 N. Main
Monroe City, MO 63456
314-735-4541
Steele, James C OBG
2802 Marsh Ave
Hannibal, MO 63401
314-221-5250
Walley, Lynn J OBG
P.O. Box 311
Hannibal, MO 63401
314-221-5250
Walterscheid, John H GP
1209 Broadway
Hannibal, MO 63401
314-221-4910

158—NORTHWEST (Nodaway-Holt-Atchison-Gentry-Worth Counties)

Almuttar, Wasif F AN
1802 S. Main
P. O. Box 385
Maryville, MO 64468
816-562-2573
Bare, Edward F GP
102 S 6th
Tarkio, MO 64491
816-736-4193
Bauman, Henry C GP
929 West 3rd
Maryville, MO 64468
816-582-2742

---

* Doctor of osteopathy.

Carlin, Albert L GP
Park Ave
Stanberry, MO 64489
816-783-2192

Carpenter, Wallace GP
100 Cass St
Rock Port, MO 64482
816-744-5361

Chavala, Sudarsan OPH
Maryville Eye Clinic
Hwy 71 S. Box 617
Maryville, MO 64468
816-562-2566

*Combs, Marvin D GP
606 North College
Albany, MO 64402
816-726-3937

Dawson, Jane L OBG
1810 South Main
Maryville, MO 64468
816-582-2156

Dawson, Patrick S FP
South Highway 71
Maryville, MO 64468
816-582-2156

Dean, Walter E FP
114 East South Hills Dr.
Maryville, MO 64468
816-562-2525

Dizney, Desmion M FP
NMSU-Cooper Hall
Maryville, MO 64468
816-582-7141

Dundee, John T R
St Francis Hospital
Maryville, MO 64468
816-582-8152

Dunshee, Robt E FP
P. O. Box 408
Maryville, MO 64468
816-582-4571

Engelken, Michael K FP
502 State
Mound City, MO 64470
816-442-5464

Harr, Patrick B FP
114 E. South Hills Dr.
Maryville, MO 64468
816-562-2525

Havaldar, Kanti L IM
Hwy 71 S, P. O. Box C
Maryville, MO 64468
816-582-2156

Humphrey, James D FP
502 State Street
Mound City, MO 64470
816-442-5464

Hunter, James K Jr. FP
High & Main
Fairfax, MO 64446
816-686-2276

Imes, Elvin D FP
P.O. Box 188
Bull Shoals, AR 72619

Jefferis, Kenneth R GS
114 E. South Hills Dr.
Maryville, MO 64468
816-562-2525

Niedermeyer, Edward L GP
305 Broad St
Tarkio, MO 64491
816-736-4121

Runez, Manuel W GS
Runez Medical Clinic Inc.
1810 S. Main Box 310
Maryville, MO 64468
816-562-2922

Tenorio, Arturo A GS
P. O. Box Park Avenue
Stanberry, MO 64489
816-783-2845

Tenorio, Genoveva P
Hwy 136-E Physicians Bldg
Albany, MO 64402
816-726-3974

Wempe, Geo R FP
3 Faustina Place
Maryville, MO 64468
816-582-2156

Wurm, Michael J FP
114 E. South Hills Dr.
Maryville, MO 64468
816-562-2525

162—NORTH CENTRAL (Adair-Schuyler-Knox-Sullivan-Putnam Counties)

English, Milton T ORS
600 S Baltimore
Kirksville, MO 63501
816-665-5611

Phillips, Ronald L FP
1201 S. Baltimore
Kirksville, MO 63501
816-665-2892

166—OZARKS (Barry-Lawrence-Christian-Newton-McDonald Counties)

Anderson, Paul B GP
113 W Hickory
Neosho, MO 64850
417-451-1234

Apostol, Andres G GS
801 Lincoln St
Monett, MO 65708
417-235-6297

Betz, Richard J IM
Sale Mem Hosp
Neosho, MO 64850
417-451-1234

Betz, Robert F GS
113 West Hickory
Neosho, MO 64850
417-451-1234

Bizek, J L GS
550A Hudson Ave.
Aurora, MO 65605
417-678-5175

Blankenship, Geo W GP
113 W. Hickory
Neosho, MO 64850
417-451-1234

Bowman, Melvin C GP
Drawer 100
Neosho, MO 64850
417-451-1155

Brown, Frederick B GP
Aurora Medical Building
550 Hudson Ave.
Aurora, MO 65605
417-678-5176

Campbell, Daniel C TS
Rt. #1 Box 30
Mount Vernon, MO 65712
417-466-3711

Carter, James R GS
113 W Hickory St
Neosho, MO 64850
417-451-1234

Christianson, Chas S PUD
Route 1
Box 85
Mount Vernon, MO 65712
417-466-3400

Cruz, Sergio G IM
St Vincent Hosp
801 Lincoln
Monett, MO 65708
417-235-7824

Dabbs, Wilbur D GP
Sale Mem Hosp
Neosho, MO 64850
417-451-1234

Donley, Robt R GP
5416 Chappelford Lane
Shrewsbury, MO 63119

Esparrago, F R GS
808 Euclid
Monett, MO 65708
417-235-3137

Galinsky, Leon J PUD
6776 E. Via Dorado
Tucson, AZ 85715

Gardner, Jos W GP
8 Walnut Lane
Kimberling City, MO 65686
417-739-4418

Glass, Wm J GP
402 Grand
Monett, MO 65708
417-235-7448

Glover, Kenneth GP
P. O. Box 227
Mount Vernon, MO 65712
417-466-2323

Halverson, Larry W FP
Aurora Medical Building
550 Hudson Ave.
Aurora, MO 65605
417-678-5176

Hamilton, Wm P GP
1321 S. Elliott
Aurora, MO 65605
417-678-5194

Hellweg, Chas E PUD
610 N. Myrtle Street
Pierce City, MO 65723
417-476-2816

Huntington, Ione PUD
P. O. Box 158
Shell Knob, MO 65747
417-858-6869

Kenney, Roy E GP
113 W Hickory
Neosho, MO 64850
417-451-1234

Kerr, Frank T GP
814 Fairview Apt #15
Fayetteville, AR 72701
417-235-5546

Kime, Ricky L IM
92 S. Main St.
Cassville, MO 65625
417-847-4797

Koonce, John P U
Sale Hospital, Inc.
113 W. Hickory
Neosho, MO 64850
417-451-7310

Lentz, Harold C GP
603 Highland Place
Neosho, MO 64850
417-451-1234

McFarland, Rodney J FP
113 Hickory
Neosho, MO 64850
417-451-1234

McMillan, David L IM
113 West Hickory
Neosho, MO 64850
417-451-1234

Montellano, Arturo H OBG
808 Euclid
Monett, MO 65708
417-235-6086

Morrison, Thos A GP
203 Washington
Aurora, MO 65605
417-678-3225

Newman, Mary J GP
P O Drawer H
Cassville, MO 65625

Occeno, Victor G GS
808 Euclid
Monett, MO 65708
417-235-6007

Olive, Geo C A
113 W Hickory St
Neosho, MO 64850
417-451-1234

Pennington, Michael S FP
815 N. Lincoln Ave. Apt A
Monett, MO 65708
417-235-6077

Rooney, William R FP
406 West Nellie
Monett, MO 65708
417-235-6077

Sardjono, Herman IM
88 Gravel St.
Cassville, MO 65625
417-847-4300

Schnurr, Thomas C FP
113 W. Hickory
Neosho, MO 64850
417-451-1224

Stringer, Kenton L FP
550 Hudson
Aurora, MO 65605
417-678-5176

Watts, Samuel M FP
Aurora Medical Bldg.
550 Hudson
Aurora, MO 65605
417-678-5176

White, Russell D FP
Aurora Medical Building
550 Hudson Ave.
Aurora, MO 65605
417-678-5176

Williams, James R R
500 Porter St.
Aurora, MO 65605

170—PEMISCOT

Bernard, James W GP
Doctors Clinic Box 201
Caruthersville, MO 63830
314-333-1782

*Craft, Charles W FP
106 W. 12th Street
Caruthersville, MO 63830
314-333-1782

Grable, James D GP
203 E 3rd St
Portageville, MO 63873
314-379-5232

Gubin, Alan S PD
106 W 12th St
Caruthersville, MO 63830
314-333-1782

Hazel, James G Jr. R
Box 198
Caruthersville, MO 63830
314-333-0707

---

* Doctor of osteopathy.

Lopez, Ruben E GP
P.O. Box 434
Hayti, MO 63851
314-359-1306
McCcy, Warren R GP
1117 Ward Ave
Caruthersville, MO 63830
314-333-2711
Painter, Andrew E GP
204 E. 3rd St.
Portageville, MO 63873
314-379-5467
Painter, Lattie B GP
204 E 3rd St
Portageville, MO 63873
314-379-5467
Shirey, Arnold G GP
701 E. Meadow Lane
Hayti, MO 63851

174—PERRY-STE. GENEVIEVE

Allego, Melquiadito M NM
Radiology Dept.
Perry County Mem Hosp
Perryville, MO 63775
314-547-4677
Carron, Oscar A OS
208 N. Waters
Perryville, MO 63775
314-547-4214
DeGenova, Gerard H GP
Hospital Lane
Center Drive
Ste Genevieve, MO 63670
314-883-2782
*Eckstein, Tim E
156 Linn Dr.
Ste. Genevieve, MO 63670
314-883-7424
Eugenio, Romeo F PD
106 N. Jackson
Perryville, MO 63775
314-547-8326
Fairchild, James F GP
12 S Jackson
Perryville, MO 63775
314-547-2553
Feltz, Lawrence W GP
106 N. Jackson
Perryville, MO 63775
314-547-4585
Gonzales, Jose H U
Perry Plaza Medical Cen
Perryville, MO 63775
314-547-1231
Hoffman, Robert L GP
19 S. Jackson
Perryville, MO 63775
314-296-8123
Limpiphiphatn, Dhajphong GS
334 N. Main
Perryville, MO 63775
314-547-8321
Limpiphiphatn, Ester P PD
334 N. Main
Perryville, MO 63775
314-547-8321
Lutkewitte, Jos F FP
Hospital Lane & Center Dr.
Ste Genevieve, MO 63670
314-883-2782
McDermott, Alfred E GP
1104 W. Reddick St.
Perryville, MO 63775
314-547-2241
Medrano, Cresenciano A OBG
313 North Jackson St.
Perryville, MO 63775
314-547-6548
Medrano, Lina E IM
720 Dorothy Street
Perryville, MO 63775
314-547-6548
Pontillas, Job B GS
Perry Plaza Med. Ctr.
Perryville, MO 63775
314-547-8219
Raju, Niranjana IM
990 Park Dr.
Ste. Genevieve, MO 63670
314-883-7474
Utterman, Wm F GS
Lake Forest Estates
Ste Genevieve, MO 63670
314-483-2222
Yang, John S OBG
Pointe Basse Plaza Mall
Ste. Genevieve, MO 63670
314-883-5715

178—PETTIS

Allcorn, Donald K FP
302 Hiway 65 North
Lincoln, MO 65338
816-547-3915
Azan, Abraham N OBG
1708 W. 9th
Sedalia, MO 65301
816-827-0015
Azan, Kenneth N IM
1718 S. Ingram, Suite C
Sedalia, MO 65301
816-827-2535
Boyce, John M PTH
2703 Clark Lane
Columbia, MO 65201
314-581-1760
Brazos, John C U
RR #6
Sedalia, MO 65301
816-826-0606
Campbell, Albert J GP
625 E 13th St
Sedalia, MO 65301
816-826-8989
Clemens, Robert M AN
711 W. Broadway
Sedalia, MO 65301
816-826-8384
Cole, Wm R GS
1718 S. Ingram
Sedalia, MO 65301
816-827-2524
Daum, Harold F R
Rte 1
Sedalia, MO 65301
816-827-0880
Edmonds, Robt W PD
1718 S Ingram
Sedalia, MO 65301
816-827-0500
Edwards, David R GP
1619 S. Moniteau
Sedalia, MO 65301
Eldenburg, Donald O GP
700 S Limit
Sedalia, MO 65301
816-826-7300
Farkas, James R R
Bothwell Memorial Hospi
Radiology Dept
Sedalia, MO 65301
816-826-8833
Foster, R. Steve U
1704 S. Ingram
Sedalia, MO 65301
816-826-7077
Frank, Gael R ORS
1718 South Ingram
Sedalia, MO 65301
816-827-0505
Hartman, Rodney C DR
644 E. 13th St.
Bothwell Mem. Hosp.
Sedalia, MO 65301
816-826-8833
Hopkins, Thomas S IM
Rt 1 Box 123
Hughesville, MO 65334
816-826-4820
Hopkins, Thos J GP
700 S Limit St
Sedalia, MO 65301
816-826-7300
Hornbostel, Phillip M GS
1718 S. Ingram St.
Sedalia, MO 65301
816-827-0423
Horochowski, Alejandro GS
1704 South Ingram
Sedalia, MO 65301
816-826-5950
Kiburz, Douglas W ORS
1718 S. Ingram
Sedalia, MO 65301
816-826-5890
Lamy, John E GS
400 DAL-WHI-MO Court
Sedalia, MO 65301
816-826-4872
Lepkowski, Marek B U
600 E. 13 Street
Sedalia, MO 65301
816-827-0031
Lowe, Alvin L GP
RR4 Box 242A
Sedalia, MO 65301
816-826-3265
Owens, John H PTH
3003 Wing
Sedalia, MO 65301
816-826-3706
Proctor, Donald C GP
700 S Limit St
Sedalia, MO 65301
816-826-7300
Roehrs, David H R
107 East Third
Sedalia, MO 65301
816-827-5244
Stockwood, Robt C OBG
1718 S Ingram
Sedalia, MO 65301
816-826-1381
Sull, Won-jong GS
1501 South Grand
Sedalia, MO 65301
816-827-2330
Van Dyke, Elmer H OBG
1718 S Ingram
Sedalia, MO 65301
816-826-1381
Woolery, William G IM
1718 S. Ingram
Sedalia, MO 65301
816-827-2526
Worley, Chas A GP
P. O. Box 202
Sweet Springs, MO 65351
816-335-6326
Wuellner, David H IM
1718 S. Ingram Ave.
Sedalia, MO 65301
816-827-2526

186—PIKE

Glenn, Edward A GS
RR 1
Louisiana, MO 63353
314-754-5555
Martin, Wendell J GP
211 S 3rd St
Louisiana, MO 63353
314-754-5555
Middleton, John W FP
211 South Third
Louisiana, MO 63353
314-754-5555
Pitney, Phillip W FP
211 S 3rd
Louisiana, MO 63353
314-754-5555
Stuerman, Lawrence G FP
211 S 3rd St
Louisiana, MO 63353
314-754-5555

189—ST. CHARLES-LINCOLN

Altman, Martin P GE
2850 W Clay St
St Charles, MO 63301
314-724-1940
Alul, Mohammad Ali H PD
#2 Westbury Dr.
St Charles, MO 63301
314-723-1711
Anderson, Frank K D
133 S. 7th St.
St. Charles, MO 63301
Bagwe, Ranjit M CD
1301 Boonslick
St Charles, MO 63301
314-724-6700
Baird, Keim L P
2860 W Clay St
St Charles, MO 63301
314-946-5844
Binz, Donald E FP
145 Centre Pointe Dr. Ste A
St. Charles, MO 63303
314-928-3300
Byer, Amy J OBG
2850 W. Clay St.
St. Charles, MO 63301
314-724-1940
Cabrera, Tomas V GS
6 Jungermann Ct.
Suite 109
St Peters, MO 63376
314-447-6340
Canale, John P P
1 Westbury Sq.
Bldg. C
St. Charles, MO 63301
314-946-8810
Cannon, Richard E PDA
12 Westbury
St. Charles, MO 63301
314-723-7333
Canty, Eugene J IM
1824 Sibley St.
St Charles, MO 63301
314-724-0692

---

* Doctor of osteopathy.

Carpenter, James L U
2 Westbury Room 6
St Charles, MO 63301
314-723-4590

Choi, Sei Young P
1360 S. 5th St. #346
Three Flgs
St. Charles, MO 63301
314-946-3886

Clever, Henry W PD
1301 Boonslick Rd
St Charles, MO 63301
314-723-0511

Clever, Victor G OPH
1005 Fairgrounds
St Charles, MO 63301
314-946-6986

Commerford, John F GP
1301 Boonslick Rd
St Charles, MO 63301
314-724-6700

Connelly, Michael W OPH
1005 Fairgrounds
St. Charles, MO 63301
314-946-6986

Conoyer, J. Michael OTO
6 Jungermann Cir., Suite 102
St. Peters, MO 63376
314-447-3100

Curry, Michael J IM
2850 W Clay St
St Charles, MO 63301
314-724-1940

Cusworth, Robert GE
1301 Boonslick
St. Charles, MO 63301
314-723-2555

Damron, Edward O GP
309 Griffin St
Elsberry, MO 63343
314-898-5450

Del Pizzo, Ferdinand OBG
1301 Boonslick
St Charles, MO 63301
314-723-4143

Dieterich, Russell OBG
1600 Heritage Landing
Suite 203
St Charles, MO 63301
314-447-6441

DiFilippo, Emil A ORS
2633 West Clay St.
St Charles, MO 63301
314-946-7050

Duling, Gerald J PD
St Joseph Hospital
Third St & First Cap
St Charles, MO 63301
314-724-2810

Duncan, David T OBG
2 Westbury Dr
St Charles, MO 63301
314-925-2222

DuMontier, Rene J GP
302 South Main St.
O'Fallon, MO 63366
314-272-3655

Fajatin, Romulo J IM
#2 Westbury
St. Charles, MO 63301
314-946-9130

Fleming, Robt J OPH
1005 Fairgrounds
St Charles, MO 63301
314-724-7116

Frank, Bruce S OPH
4129 Mexico Road
St. Charles, MO 63303
314-441-7900

Friesen, Randall G OBG
1301 Boonslick
St. Charles, MO 63301
314-723-4143

Goldkamp, John D PD
2 Westbury
St Charles, MO 63301
314-723-2525

Harding, Clarke T PTH
300 First Capitol
St. Charles, MO 63301
314-724-2810

James, Kathleen M GS
2 Westbury
St. Charles, MO 63301
314-724-6633

*Jones, James E GP
418 S. Church
P.O. Box 10
St. Peters, MO 63376
314-278-6578

Kamada, Tsutomu GS
1001 Hwy K Suite 2
O'Fallon Med. Ctr.
O'Fallon, MO 63366
314-272-5454

Keefe, David M PD
#2 Westbury Drive
St Charles, MO 63301
314-723-2525

Keesal, Dennis EM
300 First Capitol Dr.
St. Joseph Health Care
St. Charles, MO 63301
314-724-2810

Keller, Robt M GP
712 Parr Dr.
Wentzville, MO 63385
314-327-4120

Keohane, Mark ORS
2633 W. Clay St.
St Charles, MO 63301
314-946-7050

Kingsbury, Robt J GS
222 S 2nd St
St Charles, MO 63301
314-724-0101

Kister, Geo E GP
45 Honey Locust Lane #316-A
St Charles, MO 63301

Kulkarni, Satish R P
14337 Cypress Hill Dr.
Chesterfield, MO 63017
314-469-7235

Lamb, Eileen IM
145 Centre Pointe
St. Charles, MO 63303
314-441-6072

*Lillard, Stephen B IM
#6 Jungermann Circle
St. Peters, MO 63376
314-441-6056

Linsenmeyer, Charles M ORS
2633 W. Clay St.
St Charles, MO 63301
314-946-7050

Marrs, David B D
133 S. Seventh St.
St. Charles, MO 63301
314-946-7608

McCabe, Eugene J OPH
1005 Fairgrounds
St. Charles, MO 63301
314-946-6986

Meltz, Gary J IM
145 Centre Pointe Dr. #D
St. Charles, MO 63303
314-447-7038

Menendez, Silvana Y P
1360 E. Fifth St.
St. Charles, MO 63301
314-946-6991

Mentel, John J IM
6 Jungermann Circle
Suite 103
St. Peters, MO 63376
314-441-7955

Meyers, Jerry R GS
222 South Second St
St Charles, MO 63301
314-724-0101

Minkoff, I. Monica HEM
#6 Jungermann Circle
St Peters, MO 63376
314-441-9393

Moeller, F. Delbert OBG
200 Medical Plaza Suite 101
Lake St. Louis, MO 63367
314-878-6977

Mohapatra, Raj N U
6 Jungermann Circle Ste 109
St. Peters, MO 63376
314-723-6181

Muhm, Harvard Y GS
1301 Boonslick
St Charles, MO 63301
314-723-1144

Muzaffaruddin, Mohammed AN
12831 Wood Valley Ct.
St. Louis, MO 63131

Olson, Richard O GS
2850 W Clay St
St Charles, MO 63301
314-724-1940

Padilla, Pedro C U
#15 Manor Rd.
Troy, MO 63379
314-528-6844

Penkoske, Michaele M IM
24 Lake Forest Drive
St. Charles, MO 63301
314-946-1674

Perlmutter, John C OPH
2860 W. Clay St.
St. Charles, MO 63301
314-724-6880

Perna, Vincent P PTH
11636 Administration Dr.
Creve Coeur, MO 63146
314-567-3905

Piper, Terrence L ORS
#6 Jungermann Cir.
St. Peters, MO 63376
314-447-3444

Poggemeier, Wm H FP
120 First Capitol Dr.
St Charles, MO 63301
314-724-6336

Qalbani, Mahmood A AN
422 First Capitol Dr.
St. Charles, MO 63301
314-946-9030

Roter, Alexander M OBG
2 Westbury Dr
St Charles, MO 63301
314-946-5002

Rother, Paul H IM
1301 Boonslick Rd
St Charles, MO 63301
314-724-6700

Roxas, Generoso P IM
533 Jefferson Street
St. Charles, MO 63301
314-723-5116

Schlansky, Howard J PD
1600 Heritage Landing #207
St. Charles, MO 63303
314-441-5437

Schneider, Thos A GS
2850 W Clay
St Charles, MO 63301
314-724-1940

Schuetz, Alfred IM
1301 Boonslick
St Charles, MO 63301
314-724-6700

*Sill, William FP
#6 Jungermann Circle
Suite 101
St Peters, MO 63376
314-447-6050

Simowitz, Fredric M N
20 Vouga Lane
St. Louis, MO 63131
314-872-9070

Smoller, Martin B IM
7624 Westmoreland
St Louis, MO 63105
314-724-1940

Soucy, John C IM
2850 W Clay St
St Charles, MO 63301
314-724-1940

Steiman, Barry OBG
11636 Chieftain
Creve Coeur, MO 63141
314-724-1940

Stufflebam, Brian W IM
6 Jungermann Circle
Suite 201
St. Peters, MO 63376
314-724-1940

Suarez-Solar, Pedro L P
1360 S 5th St Suite 270
St Charles, MO 63301
314-946-6991

Tejero, Jonas S IM
547 First Capitol Dr
St Charles, MO 63301
314-723-4600

Thiele, Otto K GS
2 Westbury
St Charles, MO 63301
314-724-6633

Uhlemann, John H D
1301 Boonslick
St Charles, MO 63301
314-724-6700

Umar, Ibrahim S PD
4200 N. Cloverleaf
Suite A
St. Charles, MO 63301
314-922-9182

Vivian, Gary D OBG
2745 West Clay Suite K
St. Charles, MO 63301
314-946-1331

Walsh, Martin J IM
15 Warwick Ct.
St. Charles, MO 63301
314-724-1940

Westerfeld, Roy A PD
1301 Boonslick
St Charles, MO 63301
314-723-0511

Willman, Martin L OTO
2860 W Clay
St Charles, MO 63301
314-946-0821

Wipfler, Earl J GS
222 S Second
St Charles, MO 63301
314-724-0101

---

* Doctor of osteopathy.

190—ST. LOUIS METROPOLITAN

Abada, Eleanor S PTH
9903 Gravois
St. Louis, MO 63123
314-645-1960
Abada, Roland AN
12527 Ridgemoor Lake Ct.
St. Louis, MO 63131
314-842-5600
Abel, Charles C IM
4949 Barnes Hosp E. Pavilion
Suite 16416
St. Louis, MO 63110
314-367-4800
Abel, Oliver IM
4949 Barnes Hosp E. Pavilion
Suite 16416
St Louis, MO 63110
314-367-4800
Abelardo, Miguel I IM
300 S Grand
St Louis, MO 63103
314-658-5652
Abinoja, Conrado B IM
4909 Lindenwood
St Louis, MO 63109
314-351-6134
Abodeely, Daniel A R
586 Pinetree Lake
Chesterfield, MO 63017
314-842-3560
Abrams, Morris U
4625 Lindell Blvd Ste 319
St Louis, MO 63108
314-367-1660
Abramson, Charles L R
510 S. Kingshighway
St Louis, MO 63110
314-567-1656
Abu Dalu, Ziad FP
100 N. Euclid #706
St. Louis, MO 63108
314-367-3711
Accardo, Pasquale J PD
1465 S. Grand Blvd.
St. Louis, MO 63129
314-577-5609
Aceto, Thomas PD
1465 S. Grand Blvd.
St. Louis, MO 63104
314-577-5648
Ackerman, Lauren PTH
#8 Chickadee Way
Long Island, NY 11733
516-444-3011
Adams, Allen G ORS
16 Hampton Village Suite 286
St. Louis, MO 63109
314-962-1777
Adelmann, Eugene N
10004 Kennerly #2250
St Louis, MO 63128
314-849-5144
Adler, Benard C OTO
522 N. New Ballas Rd. #264
St Louis, MO 63141
314-362-7509
Aff-Drum, Helen PD
1412 Spoede Rd
St Louis, MO 63131
314-854-6635
Afuwape, Emanuel A GS
2102 State St.
Box 2677
E. St Louis, IL 62205
314-274-4640
Aguinaldo, Jaime A IM
9313 Manchester Rd
St Louis, MO 63119
314-961-5656
Ahadi, Abd U IM
13029 Ambois Dr.
St Louis, MO 63141
314-658-1128
Ahern, Archibald M IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Ahlering, George H OBG
621 S New Ballas Ste 56
St Louis, MO 63141
314-432-3489
Ahmad, Aqeeb FP
6917 W. Florissant
St. Louis, MO 63136
314-383-1100
Ahmad, Naseer IM
6125 Clayton Ave. #220
St. Louis, MO 63139
314-644-2333
Ahmad, Nusrat J OBG
1141 Templeton Place
Ballwin, MO 63011
314-878-5137

Aitken, Louis F IM
4989 Barnes Hospital Pl
5102 Queeny Tower Bl
St Louis, MO 63110
314-361-5056
Akbarnia, Behrooz A ORS
1465 S. Grand Blvd. #528
St. Louis, MO 63104
314-771-7643
Aker, Umit T IM
3009 N. Ballas Rd.
St Louis, MO 63131
314-647-2290
Akyol, Salim IM
224 S. Woodsmill Rd. #580
Chesterfield, MO 63017
314-361-6699
Al-Aly, Mohammed R
9 Doubletree
St. Louis, MO 63131
314-821-0644
Albera, Victor H AN
Gerald Family Clinic
Rt. 2, Box 236
St. Clair, MO 63077
314-239-7711
Albert, I. Renee D
10921 Rondelay Dr.
St Louis, MO 63141
314-427-2424
Albus, Thomas E ORS
901 W. Adams Ave.
St. Louis, MO 63122
314-291-7181
Alegre, Jorge M IM
222 S. Woods Mill #310
Chesterfield, MO 63017
314-576-6700
Aleksander, Bernardo G P
1420 Grattan St.
St Louis, MO 63104
314-241-7600
Alex, Morris IM
522 N New Ballas Rd #149
St Louis, MO 63141
314-567-1902
Alexander, George K GS
3009 N. New Ballas Rd. #207
St Louis, MO 63131
314-432-8882
Ali, Syed S CHN
2120 Madison Ave. Suite 206
Granite City, IL 62040
618-876-6321
Allen, Hollis N PTH
681 North Forest
St Louis, MO 63119
Allen, James H PTH
11133 Dunn
St Louis, MO 63136
314-432-1850
Allen, Melvin A OBG
14 Lindworth Dr.
St Louis, MO 63124
314-821-3900
Allen, Stephen P IM
533 Couch
Kirkwood, MO 63122
314-965-6411
Allen, Willard M OBG
14180 Burntwoods Rd.
Glenwood, MD 21738
301-442-2425
Almiron, Osias A GS
4638 Gravois P.O. Box 189
House Springs, MO 63051
314-821-8099
Alonso, J. Mario Jr. FP*
2900 Lemay Ferry Rd.
St Louis, MO 63125
314-843-7956
Alonso-Yague, Pascual IM
4585 Washington
Florissant, MO 63033
314-839-3200
Altepeter, H. Martin GS
621 S. New Ballas Rd. #437
St. Louis, MO 63141
314-872-8386
Alvarez, Ulises C IM
4585 Washington
Suite A1
Florissant, MO 63033
314-839-3200
Alvis, Edmund B OPH
1027 CyAnn Drive
Manchester, MO 63011
314-863-4200
Amanat, Ebrahim P
222 S. Woods Mill #490N
Chesterfield, MO 63017
314-383-0220
Amato, Maryellen DR
12389 Rossridge Ct.
St. Louis, MO 63146
314-878-6343
Amin, Navin J OPH
5505 Delmar Blvd.
St Louis, MO 63112
314-367-7077

Amjad, Mohammad T PD
10004 Kennerly Rd.
St. Louis, MO 63128
314-849-6030
Andersen, David A ORS
1034 South Brentwood #650
St. Louis, MO 63117
314-721-7325
Anderson, Charles B GS
6343 Alexander Dr
St. Louis, MO 63105
314-362-7406
Andrus, Charles H GS
7017 Nashville
St. Louis, MO 63117
314-781-6354
Anglo, Luis B FP
10004 Kennerly Rd
Suite 155
St Louis, MO 63128
314-849-1200
Anslinger, David L IM
14329 Lake Tahoe Dr
Chesterfield, MO 63017
314-821-9150
Anstey, Geo C OBG
10449 St Charles Rock R
St Ann, MO 63074
314-429-1900
Anstey, John T OBG
10449 St. Charles Rock Rd.1
St. Ann, MO 63044
314-429-1900
Antoniou, Chris A PD
3434 Bridgeland
Bridgeton, MO 63044
314-291-4994
Antonow, Juli A PD
2850 West Clay
St. Charles, MO 63301
314-946-7838
Applewhite, Thomas A DR
621 S. New Ballas Rd.
St. Louis, MO 63141
314-569-6031
Arcelona, Jesus A GP
3535 S Jefferson
St Louis, MO 63118
314-773-3580
Archer, Carol R R
1325 S Grand
St Louis, MO 63104
314-771-7600
Arenos, Proceso T GS
3009 N Ballas Rd. #216
St. Louis, MO 63131
314-567-5377
Arias, Fernando OBG
621 S. New Ballas Rd.
St Louis, MO 63141
314-569-6880
Arneson, Axel N OBG
6536 Devonshire
St Louis, MO 63109
314-367-0353
Arney, Wm G P
16 Hampton Village
St Louis, MO 63109
314-351-5927
Arnold, Kenneth J GS
4989 Barnes Hosp Plaza #6107
St Louis, MO 63110
314-362-7272
Arnot, John P ORS
1034 S Brentwood Blvd #650
St Louis, MO 63117
314-721-7325
Aronberg, Dixie J R
510 South Kingshighway
St. Louis, MO 63110
314-362-2927
Aronberg, Jerome M D
141 N Meramec #315
St Louis, MO 63105
314-863-6221
Arribas, Neva P OPH
4949 Barnes Hosp Plaza 17413
St Louis, MO 63110
314-367-1181
Asaro, Phillip V FP
2202 S. 12th St.
St. Louis, MO 63104
314-771-3883
Ashby, Richard NS
533 Couch Ave.
St Louis, MO 63122
314-965-8282
Aubuchon, Craig E ORS
621 S. New Ballas Suite 101
St. Louis, MO 63141
314-567-0600
Auclair, Ronald J RHU
456 N. New Ballas Rd.
St. Louis, MO 63141
314-569-3305
Auer, Arthur I GS
621 S. New Ballas #307
St Louis, MO 63141
314-567-6666

---

* Doctor of osteopathy

Aufderheide, G. Russell IM
216 Northland Office Bldg.
St Louis, MO 63136
314-383-6818
Augustin, Cesar R
P. D. Box 5386
Nagel Station
St Louis, MO 63115
314-385-3600
Avins, Laurence R OPH
1034 S. Brentwood #816
St. Louis, MO 63117
314-727-6711
Avioli, Louis V IM
216 S Kingshighway
St Louis, MD 63110
314-454-7765
Axelrod, Janice H OBG
1325 S. Grand Blvd.
St. Louis, MO 63104
314-776-8100
Ayata, Sedat M AN
41 Ladue Estates Dr.
St Louis, MD 63141
314-768-8000
Aykent, Yavuz CD
6400 Clayton Rd.
St Louis, MO 63117
314-645-6450
Aylward, Howard J Jr. IM
911 S Brentwood Blvd
St Louis, MO 63105
314-725-2100
Aylward, Howard J Sr. PS
6651 Chippewa #221
St Louis, MO 63109
314-647-8895
Ayvazian, Vatche H GS
621 S New Ballas Rd
St Louis, MO 63141
314-569-6442
Azad, Arifa OBG
10600 Clayton Rd.
St. Louis, MO 63131
314-997-6788
Azu, Charles C GS
225 West Manor Drive
Chesterfield, MO 63017
314-371-3100
Azzam, Farid J AN
1465 S. Grand Blvd.
St. Louis, MO 63104
314-865-4000
Babka, Joseph J GS
10004 Kennerly Rd.
St Louis, MO 63128
314-849-2500
Backer, Matt H OBG
1325 S. Grand
St. Louis, MO 63104
314-965-6033
Backer, Robert J NS
104 Chatwood
Crestwood, MO 63126
314-771-7600
Bagby, James W D
#7 Country Life Acres
St Louis, MO 63131
Baglan, Robert J TR
615 S. New Ballas Rd.
St. Louis, MO 63141
454-338-0000
Bagwe, Lata R OBG
Suite #105
14377 Woodlake Dr.
Chesterfield, MO 63017
314-878-6236
Bailey, Drennan GS
6356 Clayton Rd
St Louis, MO 63117
314-647-3834
Bailey, Gregory J NS
2015 Sandfield
St. Louis, MO 63146
314-434-8748
Bailey, Wm H OPH
9157 E. Milton Ave.
St Louis, MO 63114
314-423-2870
Baker, Carl N FP
11521 Gravois
St. Louis, MO 63126
314-843-1111
Baldwin, Richard ORS
3009 North Ballas Rd.
Suite #204
St Louis, MO 63131
314-569-2458
Bale, Robert D DBG
621 S. New Ballas Suite 4005
St. Louis, MO 63141
314-567-5016
Balfe, Dennis M DR
510 S. Kingshighway
St. Louis, MO 63110
314-362-2928
Ballal, Hebri S IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Ballinger, Walter F GS
4989 Barnes Hosp Plaza #5101
St Louis, MO 63110
314-362-7407
Balster, Vernon H DM
819 Locust
St Louis, MO 63101
314-621-4300
Bamshad, Jerry D
1120 Graham Rd
Florissant, MO 63031
314-831-2464
Bandle, Donald F P
3801 January Ave
St Louis, MO 63109
314-644-1474
Banerji, Debabrata GS
3606 Gravois Ave.
St. Louis, MO 63116
314-821-6096
Banez, Colita L P
5400 Arsenal
St Louis, MD 63139
314-892-5774
Banton, M. Roman IM
13634 Peacockfarm Rd
St Louis, MO 63131
314-381-1204
Banton, Michael R P
4256 Maryland Ave Apt 1-West
St. Louis, MO 63108
314-531-9571
Banton, Thomas J DRS
12255 DePaul Dr
Bridgeton, MD 63044
314-739-7654
Banton, William C II IM
13634 Peacockfarm Rd.
St. Louis, MO 63131
314-381-1204
Bardsley, John L R
621 S New Ballas Rd
St Louis, MO 63141
314-567-4442
Bari, Wagih A PTH
615 S. New Ballas Rd.
St. Louis, MO 63141
314-569-6120
Barker, Edward T PD
2821 N Ballas Rd #210
St Louis, MO 63131
314-432-1854
Barlow, Val John IM
14443 Bantry Lane Suite 22
Chesterfield, MO 63017
314-527-5425
Barner, Hendrick B CDS
1325 S. Grand Blvd.
St. Louis, MO 63104
314-771-7600
Barragan, Hector D GS
533 Couch #G67
St. Louis, MO 63122
314-821-8997
Barrett, Scott R Sr. OBG
10475 Fair Oaks
Columbia, MD 21044
314-367-6930
Barrow, Jack IM
1034 S. Brentwood #1060
St Louis, MO 63117
314-721-0666
Bart, Gerald N OTO
10004 Kennerly #310
St. Louis, MO 63128
314-842-5080
Bartell, Michael F IM
6400 Clayton Rd. #201
St. Louis, MO 63117
314-781-8405
Bartnick, Mitchel L FP
RR 2 Box 89
Desoto, MO 63020
314-638-2028
Barton, Premsri T R
950 Francis Place Suite 11
Clayton, MO 63105
314-863-1888
Barton, Robert W IM
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-878-6260
Bashiti, Mohammad F AN
232 S. Woods Mill Rd.
Chesterfield, MO 63017
314-434-1500
Bassman, Donald R ORS
7 Exmoor Dr.
St. Louis, MO 63124
314-569-0130
Batan-Co, Ruby L AN
14233 Reelfoot Lake Dr
Chesterfield, MO 63017
314-469-1039
Baue, Arthur E GS
1325 S. Grand
St. Louis, MO 63017
314-647-4841
Bauer, Daniel J IM
621 S. New Ballas Rd.
Creve Coeur, MO 63141
314-432-4415
Bauer, Eugene A D
4989 Barnes Hospital Plaza
St Louis, MD 63110
314-362-2643
Bauer, John D PTH
2820 Clearview
St. Louis, MO 63121
314-441-6500
Bauer, Jos A PD
1031 Cyann
Manchester, MO 63011
Baula, Armindo G R
609 Jeffersonian Dr
St Louis, MO 63125
Bauschard, Frederick D D
6500 Chippewa #320
St Louis, MD 63109
314-832-6803
Bauwens, Daniel B IM
224 S. Woods Mill Rd. #510
Chesterfield, MO 63017
314-361-8833
Beare, J. Byron U
12 Coach-N-Flour
St. Louis, MO 63131
Beare, Lucia V AN
12 Coach-N-Four
St. Louis, MO 63131
314-966-4648
Beasley, Louis K GE
4555 Manatee Terrace
Stuart, FL 33494
305-283-8255
Beato, David L IM
6305 Devonshire Ave.
St Louis, MO 63109
314-781-2929
Beaty, Wm R OBG
901 Clayton Rd.
Ballwin, MO 63011
314-227-8500
Becker, Bernard DPH
517 S Euclid #761
St Louis, MO 63110
314-362-3740
Becker, Robt L OBG
777 So. New Ballas Rd. #100E
St Louis, MO 63044
314-567-7303
Becker, Stanley C OPH
7720 Watson Road
St Louis, MO 63119
314-352-5500
Beckette, Edmund OBG
65 Crestwood Drive
St. Louis, MO 63105
Behbahani, Parviz M AN
12303 DePaul #1-335
Bridgeton, MO 63044
314-344-6335
Behrens, Donald T GS
3535 S. Jefferson Suite 307
St Louis, MD 63118
314-776-0568
Behrens, Gerald L GS
325 N. Kirkwood Rd #301
St. Louis, MD 63122
314-966-8500
Beidle, Raymond J PD
#28 Muirfield Lane
St. Louis, MO 63141
314-291-4727
Belew, Joe E OBG
224 S Woods Mill Road
Suite 750
Chesterfield, MO 63017
314-576-9797
Bell, Martin J GS
621 South New Ballas Rd.
Suite 6018
St Louis, MO 63141
314-569-6425
Bell, Stephen AN
736 Westwood Lake Dr.
St. Louis, MO 63131
Benage, Clarence M GS
11115 N Halls Ferry Rd #303
Florissant, MO 63033
314-839-0366
Benedict, William W IM
522 N New Ballas Rd #349
St. Louis, MO 63141
314-567-3113
Bennett, John OBG
950 Francis Place
Suite 219
St. Louis, MO 63105
314-727-3087
Benoist, Walter F PD
119 Church St
St Louis, MO 63135
314-521-1600

---

* Doctor of osteopathy

Berard, Louis N U
3225 N. Florissant #209
St Louis, MO 63107
Berdy, Gregg J OPH
3655 Vista Ave.
St. Louis, MO 63110
314-772-9200
Berdy, Susan S IM
703 Westwood Dr. Apt 3A
St. Louis, MO 63105
314-726-1072
Berg, Edward F OPH
5 Cedarcrest
St Louis, MO 63132
314-569-1558
Berg, Leonard N
4949 Barnes Hosp Plaza
Suite 16304
St Louis, MO 63110
314-367-3122
Berg, Ralph FP
8064 Watkins Dr.
St Louis, MO 63105
314-773-7857
Berger, Edward J IM
300 S Grand Blvd
St Louis, MO 63103
314-658-5794
Bergmann, Dwayne L U
6500 Chippewa St #304
St Louis, MO 63109
314-351-5300
Bergmann, John F P
522 N New Ballas Rd #317
St Louis, MO 63141
314-567-1958
Bergmann, Martin TS
4910 Forest Park #206
St Louis, MO 63108
314-361-3676
Bergner, Grace E IM
1311 Gilbert Ave.
St Louis, MO 63119
Berland, David I P
1221 S. Grand
St. Louis, MO 63104
314-577-8724
Berland, Harry I R
29 Granadaway
St. Louis, MO 63124
314-721-0242
Berman, Wm OBG
4910 Forest Park Blvd #318
St Louis, MO 63108
314-361-5220
Bernabe, Florinio H OBG
1642 Frontenac Woods Lane
St Louis, MO 63131
314-544-3700
Bernabe, Ofelia M IM
2250 Union Rd.
St. Louis, MO 63125
314-544-3700
Berndsen, Gerard H FP
9313 Manchester Rd.
St Louis, MO 63119
314-962-7875
Berni, Anthony A R
777 S New Ballas #121E
St Louis, MO 63141
314-567-4350
Bernstein, Aaron M IM
7171 Delmar #100
St Louis, MO 63130
314-863-0033
Berry, John W IM
9055 Perth Rd.
Lake Worth, FL 33467
314-872-7500
Berwald, David M GS
3478 Bridgeland Suite #2
Bridgeton, MO 63044
314-739-8200
Berwald, Irvin I FP
747 Old Bonhomme Rd.
St Louis, MO 63132
314-731-2080
Best, John A IM
224 South Woods Mill Rd.
Chesterfield, MO 63017
314-576-6700
Bettonville, Paul J IM
135 W. Adams Ave. #207
St Louis, MO 63122
314-965-7201
Bettonville, Peter V IM
135 W. Adams Ave. #207
St. Louis, MO 63122
314-965-8031
*Beyer, Craig F OPH
3652 Hickory
St. Louis, MO 63110
314-772-9200
Bhattacharya, Arjun GS
7200 Manchester Rd
St Louis, MO 63143
314-645-7744
Bhuyan, Mahendra IM
2900 Lemay Ferry Rd. #207
St. Louis, MO 63125
314-894-1668
Bialecki, Leon IM
11133 Dunn Rd. #216
St Louis, MO 63124
314-355-2300
Biddy, Ralph L P
965 Masonridge Rd
St Louis, MO 63141
314-567-5185
Biggs, F. Douglas IM
950 Francis Pl. #250
St. Louis, MO 63105
314-863-0009
Biggs, John P
1034 So Brentwood
Suite 800
St Louis, MO 63117
314-863-2244
Bilchik, Ronald C OPH
224 S. Woods Mill Rd. #440
Chesterfield, MO 63017
314-878-9902
Billy, Lawrence J GS
11115 New Halls Ferry Rd.
Florissant, MO 63033
314-839-0366
Bilsky, Nathan IM
2851 NE 183rd St
Miami, FL 33160
Bindbeutel, Donald A GS
1035 Bellevue Ave. #300
St Louis, MO 63117
314-647-0825
Binnington, H B GS
621 S New Ballas Rd #307
St Louis, MO 63141
314-567-6666
Bircher, John L R
3932 Federer Place
St Louis, MO 63116
314-842-5600
Bird, H W P
62 Conway Lane
St Louis, MO 63124
314-997-2783
Birenbaum, Aaron IM
10511 Old Olive St Rd
St Louis, MO 63141
314-993-2660
Birge, Clifford A IM
12 Ridge Top
St. Louis, MO 63117
314-997-6154
Bishop, Marion D GS
45 St. Eugene Lane
Florissant, MO 63033
314-837-0505
Black, Joseph T N
4989 Barnes Hospital Plaza
Suite 16304
St Louis, MO 63110
314-367-3122
Blackwell, Charles R AN
47 Pricewoods Lane
St. Louis, MO 63132
314-567-5804
Blair, John Douglas PTH
1402 S. Grand
St Louis, MO 63104
314-664-9800
Blair, Olga M PTH
5 Huntleigh Manor
St Louis, MO 63131
314-664-9800
Blair, Vilray P III ORS
4949 Barnes Hospital Plaza
St. Louis, MO 63110
314-362-6548
Blair, Vilray P Jr. ORS
42 Magnolia Dr.
St Louis, MO 63124
314-862-2552
Blanke, Thomas J GS
621 S New Ballas Rd #362
St. Louis, MO 63141
314-569-0227
Blaskiewicz, Robert J OBG
2821 N. Ballas Rd. #165
St. Louis, MO 63131
Blath, Richard A U
224 S. Woods Mill Rd.
Suite 510
Chesterfield, MO 63017
314-434-3433
Block, Arnold S P
4501 Lindell Blvd.
St Louis, MO 63108
314-361-8381
Bloomberg, Gordon R PD
777 S. New Ballas Rd. #106E
St. Louis, MO 63141
Blumenthal, Mark F GS
12025 Tindall
St. Louis, MO 63131
314-739-6060
Blythe, James G OBG
621 S New Ballas Rd #2009
St Louis, MO 63141
314-569-6880
Bo-Linn, George W IM
621 S. New Ballas Rd. #3008
St. Louis, MO 63141
314-569-6300
Bobrow, James C OPH
211 North Meramec
St Louis, MO 63105
314-721-0854
Bock, Linda P PD
621 S. New Ballas #7019B
St. Louis, MO 63141
314-432-7343
Bodie, Mary M IM
6313 Michigan
St. Louis, MO 63111
314-535-5190
Boedeker, James P OBG
1035 Bellevue Ave Ste 208
St. Louis, MO 63117
314-644-6262
Bohigian, G M OPH
456 N New Ballas Rd.
Suite 259
St Louis, MO 63141
314-569-1155
Boldizar, Albert G OPH
1048 S McKnight Rd.
St Louis, MO 63117
Boldt, Thos H IM
3394 McKelvey Rd. #107
Bridgeton, MO 63044
314-739-5070
Boles, C R PD
35 N Central Ave
St. Louis, MO 63105
314-725-9100
Bolinske, Robt E A
11722 Studt Ave
St Louis, MO 63141
314-569-0510
Bollozos, George D PTH
3933 S Broadway
St Louis, MO 63118
314-865-3333
Bolman, R. Morton III CDS
4989 Barnes Hosp Plaza #3108
St. Louis, MO 63110
314-362-6190
Bolton, Robert L OM
2949 Olive
St Louis, MO 63103
314-531-4722
Bonacorsi, John OTO
12255 DePaul Dr.
Bridgeton, MO 63044
314-291-5307
Bond, Leslie F GS
3400 N Kingshighway
St Louis, MO 63115
314-385-3600
Bondurant, Bryce H OBG
442 E. Viacortes
Green Valley, AZ 85614
Bonfanti, Albert L OBG
109 Northland Office Bldg.
St Louis, MO 63136
314-381-5557
Bonfili, Hubert F AM
143 Pebble Acres
St. Louis, MO 63141
314-694-8896
Boniuk, Isaac OPH
East Pavilion Suite 17413
St Louis, MO 63110
314-367-1181
Bonsanti, Robt L IM
3394 McKelvey Rd.
Bridgeton, MO 63044
314-291-3410
Boonshaft, Benje IM
10511 Old Olive St Rd
St Louis, MO 63141
314-993-2660
Borodach, Gerold N AN
6941 Washington Ave.
St. Louis, MO 63130
772-145-0000
Borowsky, Benj A IM
4910 Forest Park #312
St Louis, MO 63108
314-367-2757
Bortnick, Arthur R OBG
520 Midvale
St Louis, MO 63130
Bouhasin, John D PD
3720 Hampton #102
St Louis, MO 63109
314-351-8484
Bourjolly, Wilson P OPH
900 N Highway 67
Florissant, MO 63031
314-838-0300
Bourke, Thos E IM
3394 McKelvey Rd.
Bridgeton, MO 63044
314-739-5070

---

* Doctor of osteopathy.

Boveri, Jos C OBG
1862 Point Oak
St Louis, MO 63131
314-821-2004
Bowdern, Edward H GS
4440 Lindell
Apt. 1102
St Louis, MO 63108
Bowe, Christopher C IM
4600 S. Lindbergh Blvd.
St. Louis, MO 63127
314-225-6062
Bowen, Stephen F Jr. OPH
16 Hampton Village Plz
St Louis, MO 63109
314-351-5330
Bowen, William G IM
4652 Maryland Ave.
St. Louis, MO 63108
314-367-3113
Bower, Richard GS
400 S. Kingshighway Ste 5W12
St Louis, MO 63110
314-454-6000
Bowerman, Harold H OTO
7 Clayton Terr.
St Louis, MO 63131
314-533-5233
Bowers, James E PD
533 Couch Avenue
St. Louis, MO 63122
314-966-3324
Bowersox, Warren A GS
P. O. Box 36
Pacific, MO 63069
314-257-3500
Bowles, G R IM
12166 Old Big Bend
St Louis, MO 63122
314-821-9150
Bowles, Wm T U
4989 Barnes Hosp Plaza 17301
St Louis, MO 63110
314-361-2052
Boyarsky, Saul U
4960 Audubon Ave Box 8109
St Louis, MO 63110
314-362-7340
Brabbee, Gregory W GS
621 S. New Ballas Rd.
St. Louis, MO 63141
314-567-9930
Bradley, Richard V GS
5 Ladue Ridge Rd.
St Louis, MO 63124
314-362-7251
Brady, Harry R OPH
2821 N. Ballas Rd. #240
St Louis, MO 63131
314-432-6137
Brady, Timothy T IM
121 West Adams
Kirkwood, MO 63127
Brancato, Donald H ORS
11115 Dunn Rd. #102N
St Louis, MO 63136
314-355-7717
Brand, Earl L GP
Rt. 3, Pine Cone Lodge
Park Rapids, MN 56470
Brandwin, Leslie M IM
4910 Forest Park Blvd.#312
St. Louis, MO 63108
314-367-2757
Brangle, Robt W PTH
6150 Oakland Ave.
St Louis, MO 63139
314-432-1850
Brazil, Maria J GS
Rt 2 Box 16
Pacific, MO 63069
314-772-2862
Bremer, Rita F IM
3024 Orton St
St Charles, MO 63301
Brennan, Danl J PS
621 S. New Ballas Rd.
Suite 1003
St Louis, MO 63141
314-567-3737
Brennan, Geo A OBG
5205 Chippewa St.
Suite 303
St Louis, MO 63109
314-726-2205
Brennan, Robert A Jr. OBG
12810 Tesson Ferry Rd.
St. Louis, MO 63128
314-351-5700
Brennan, Robt V U
533 Couch Ave. G-55
St. Louis, MO 63122
314-966-4862
Brennan, Robt A Sr. OBG
6030 Highfield
St Louis, MO 63109
314-752-3283

Brereton, Robt L GS
9785 Litzsinger Rd.
St. Louis, MO 63124
314-821-6162
Bricker, Eugene M GS
43 Highgate Rd
St. Louis, MO 63132
Bridwell, Keith H ORS
4949 Barnes Hosp Plaza
St. Louis, MO 63110
314-362-4080
Brielmaier, Charles AN
14308 Conway Meadow Ct. #204
Chesterfield, MO 63017
314-768-8300
Brigham, David W OPH
14706 Manchester
Ballwin, MO 63011
314-391-0233
Brinkman, Robert A IM
522 N. New Ballas #349
St. Louis, MO 63141
314-567-3113
Brion, Pacelli E P
3535 S. Jefferson
St Louis, MO 63118
314-776-1344
• Brodeur, Armand E R
400 Bambury Way
St Louis, MO 63131
314-577-5654
Brody, Arnold G FP
3654 S. Grand
St Louis, MO 63118
314-865-4700
Bronson, Shael S P
777 S New Ballas Rd
St Louis, MO 63141
314-872-8869
Brookes, Robt D P
224 So Woods Mill Rd.
Suite 360
Chesterfield, MO 63017
314-878-7048
Brooks, Albert D IM
1963 West Clayton Rd.
Ballwin, MO 63011
314-458-3446
Broun, Goronwy O Jr. IM
1325 S. Grand
St Louis, MO 63104
314-771-7600
Brown, Barry D IM
6125 Clayton Suite 412
Clayton, MO 63139
314-645-6161
Brown, Freeman F III AN
218 Hollyberry Ct
Manchester, MO 63011
314-391-6606
Brown, Seymour AN
P. O. Box 8335
Madeira Beach, FL 33708
Bruce, Helen L PH
3438 Russell Blvd. Apt 301
St Louis, MO 63104
Bruns, Kenneth AN
1325 S. Grand
St Louis, MO 63104
314-434-0600
Brunt, L. Michael GS
7051 Waterman
St. Louis, MO 63130
314-721-7983
Bryan, Wm T OTO
9349 Parkside Drive
St. Louis, MO 63144
Bucholz, Richard D N
1325 S. Grand Blvd.
St. Louis, MO 63104
314-577-8795
Bucy, James G U
4949 Barnes Hosp Plaza
Suite 17302W
St Louis, MO 63110
314-361-4880
Budd, John J Jr. IM
9012 Manchester Rd
St Louis, MO 63144
314-962-2170
Buettner, John Brigham GS
4989 Barnes Hosp Plaza #6107
St Louis, MO 63110
314-362-7272
Burch, Phillip M PTH
1300 Clark
St. Louis, MO 63103
314-569-6000
Burde, Ronald M OPH
660 S Euclid Ave
St Louis, MO 63110
314-362-7168

Burdge, Robert E ORS
1325 S Grand Blvd
St Louis, MO 63104
314-577-8850
Burgdorf, Max H PD
12303 DePaul Dr.
Bridgeton, MO 63044
314-344-6000

Burgess, Dean OPH
4949 Barnes Hosp Plaza 17413
St Louis, MO 63110
314-367-1181
Burke, Robt J PD
16 Hampton Village Plaza
St Louis, MO 63109
314-832-2877
Burkhart, Edward F D
621 S New Ballas Rd #622
St Louis, MO 63141
314-567-5711
Burmeister, Ray W IM
2900 Lemay Ferry Rd.,
Suite 208
St Louis, MO 63125
314-894-2650
Burns, Edward L IM
4600 S. Lindbergh
St. Louis, MO 63127
314-842-5211
Burns, Francis J CRS
1035 Bellevue
St Louis, MO 63117
Burns, Michael F ORS
6744 Clayton Rd. #307
St. Louis, MO 63117
314-645-4600
Burr, Donald C R
RR 3 Box 178
Nashville, IL 62263
314-567-1644
Burst, Donald O ORS
c/o Ocean Reef Club
Harbour House #45
Key Largo, FL 33037
Burstein, Robt OBG
911 S Brentwood Blvd
St Louis, MO 63105
314-721-8852
Busch, Anthony K P
4401 Bellevue
Belleville, IL 62223
618-397-4466
Busse, Paul R
14377 Woodlake Dr.
Chesterfield, MO 63017
314-878-4680
Bussmann, Carl E GS
12255 DePaul #800
Bridgeton, MO 63044
Bussmann, Donald W CD
746 Fairfield Lake Drive
Chesterfield, MO 63017
Butcher, Harvey R GS
4989 Barnes Hospital #4105
St Louis, MO 63110
314-362-7408
Butsch, Richard H IM
335 Mid Rivers Dr.
St. Peters, MO 63376
Byrum, Fritz A FP
15360 Manchester
Ballwin, MO 63011
314-526-0061
Cabal, Edito R
11701 Lakeshore Dr.
St Louis, MO 63141
Cabal, Maria PD
11701 Lakeshore Dr.
St. Louis, MO 63141
618-272-4700
Cabbabe, Edmond B PS
10004 Kennerly Rd. Suite 200
St. Louis, MO 63128
314-842-5885
Cabral, Galileu IM
3009 N. Ballas Rd. Suite 304
St. Louis, MO 63131
314-878-4430
Caciolo, Carlo P IM
3654 S Grand Blvd #206
St Louis, MO 63118
Cacioppo, Jos E GP
1040 N Mason Rd #101
St Louis, MO 63141
314-878-5000
Cadice, John B OBG
1245 Graham Rd #408
Florissant, MO 63031
314-838-8000
Cajili, Antonio T IM
300 S Grand
St Louis, MO 63103
314-658-5647

Callaghan, Gerard M OBG
1035 Bellevue #510
St Louis, MO 63117
314-644-4460

Callahan, Donald E R
719 Champeix Lane
St Louis, MO 63141

Callahan, Jos D CHP
111 S. Bemiston
St Louis, MO 63105
314-725-7371

Calodney, Martin M PD
8730 Teasdale Ave.
St. Louis, MO 63124

• Doctor of osteopathy.

Campbell, J. William IM
114 N. Taylor Ave.
St. Louis, MO 63108
314-965-4291

Campos, Francisco J PTH
11636 Administration Dr
St Louis, MO 63141
314-567-3905

Canaan, Saml A OPH
5505 Delmar Blvd.
St Louis, MO 63112
314-367-7077

Cannon, Edward M U
14300 Conway Meadows Ct.108
Chesterfield, MO 63017

Cantor, Harvey E N
555 N. New Ballas Rd. #100
St Louis, MO 63141
314-569-0720

*Cantor, Sol F FP
4239 Reavis Barracks Rd.
St. Louis, MO 63125
314-631-1705

Capapas-Waxelman, L R IM
158 Mayfair Plaza #367
Florissant, MO 63033
314-631-6200

Caplin, David A PS
12133 Carberry Place
St. Louis, MO 63131
314-569-0130

Carden, Juan O IM
11155 Dunn Rd Suite 213
St. Louis, MO 63136
314-355-8200

Carlin, M R U
116 First Capitol Dr.
St. Charles, MO 63301
314-946-6959

Carls, Garry L R
818 Upper Cahokia Rd.
Cahokia, IL 62206

Carlson, Arne E GS
89 Pebblebrook Lane
Creve Coeur, MO 63146

Carmichael, Kim A IM
15425 Elk Ridge Lane
Chesterfield, MO 63017
314-576-6611

Carmody, John P IM
533 Couch Ave.
St. Louis, MO 63122
314-965-7440

Caronongan, Carmelito M GS
2304 Holbrook
Cairo, IL 62914
618-734-3338

Carranza, Mauro J FP
P O Box 10817
St Louis, MO 63129
314-789-3313

Carrier, John A IM
Rt 3, Box 69B
St. James, MO 65559

Carroll, Percy J GS
10341 Manchester Rd
St Louis, MO 63122

Carter, Edwin E ORS
621 S. New Ballas Rd.
St. Louis, MO 63141
314-567-5850

Cary, John M IM
224 South Woods Mill Rd.#370
Chesterfield, MO 63017
314-878-2460

Case, Mary E PTH
3556 Caroline
St Louis, MO 63104
314-664-9800

Casey, Arthur L OBG
12632 Bradford Woods Dr.
St. Louis, MO 63127
314-773-2003

Casey, Edwin J OPH
4466 W Pine
St Louis, MO 63108

Casey, Eliot C PD
621 S New Ballas #2003
St Louis, MO 63141
314-569-6150

Cason, Elbert H GS
1704 S Broadway
St Louis, MO 63104
314-436-5100

Castasus, Manuel A GS
600 N Union Blvd
St Louis, MO 63108
314-367-1828

Castro, Juan M IM
3831 S. Grand
St Louis, MO 63118
314-664-2777

Catanzaro, Anthony F Jr. IM
567 Southbrook Dr.
Kirkwood, MO 63122
314-965-8413

Catanzaro, Anthony F FP
2705 Clifton Ave
St Louis, MO 63139
314-645-2517

Catanzaro, Frank J Jr. OPH
3009 N. Ballas Rd. #205
St. Louis, MO 63131
314-997-3210

Catanzaro, Frank J Sr. CD
1688 Frontenac Woods Lane
St Louis, MO 63131
314-569-5160

Catanzaro, Rudolph E GS
8131 Page Blvd
St Louis, MO 63130
314-429-5589

Chadaratana, Phadung OTO
4121 Union Rd #216
St Louis, MO 63129
314-487-9717

Chamness, James T PS
710 S. Hanley Rd.
St. Louis, MO 63105
314-872-7474

Chanasue, John A IM
7532 Hiawatha Ave.
St. Louis, MO 63117
314-839-4466

Chaplin, Hugh IM
4949 Barnes Hospital Plaza
St Louis, MO 63110
314-362-3904

Charles, Benj H IM
2 Fielding Road
St Louis, MO 63124

Charles, Francois CD
600 N Union
St Louis, MO 63108
314-367-1828

Charnas, Raymond M IM
1040 N Mason Rd. #112
St Louis, MO 63141
314-434-0772

Chavda, Deepak ORS
3530 Laclede Ave Apt 1105W
St. Louis, MO 63103
314-652-9606

Chavez, Salvador GS
5048 Peyton Place
St Louis, MO 63128
314-966-1500

Chehval, Michael J U
621 S. New Ballas Rd. #362
St Louis, MO 63141
314-991-2626

Chen, James Z.W. TR
14014 Camberra Ct
Chesterfield, MO 63017
314-768-8268

Cheuk, Shu-Sum GS
224 S. Woods Mill Rd.
Suite 430
Chesterfield, MO 63017
314-576-0060

Chinsky, Murray IM
500 Northwest Plaza
St Ann, MO 63074
314-291-6400

Chintapalli, Rajeswari R AN
2418 Fairoyal Dr.
St. Louis, MO 63131
314-577-8750

Chipongian, Raul A OPH
1672 Foxleigh Court
St Louis, MO 63131
314-291-5000

Chirino, Octavio R OBG
533 Couch Ave.
St. Louis, MO 63122
314-996-2528

Chishti, M. Ishaq OPH
6651 Chippewa #322
St. Louis, MO 63109
314-781-3900

Chiu, Tai Mao AN
6420 Clayton Rd
St Louis, MO 63117
314-768-8300

Cho, Kyu S ORS
456 N New Ballas
Suite 369
St Louis, MO 63141
314-569-1830

Choi, Sae R GS
157 South Graeser Rd
St Louis, MO 63141
314-432-1212

Chou, Yen Ping IM
2777 Ashfield
St. Louis, MO 63129
314-892-2468

Chu, Fred C OPH
660 S. Euclid #8096
St. Louis, MO 63110
314-454-6026

Chua, Steven IM
1125 Graham Road
Florissant, MO 63031
314-838-5700

Chung, Kap Eun GS
205 West Main
Fredericktown, MO 63645
314-783-6428

Chusak, Richard B PS
3009 No Ballas Rd.
Suite 216
St Louis, MO 63131
314-567-5377

Ciapciak, Stanley J FP
30 Long Cabin
St Louis, MO 63124
314-621-2575

Claseman, Wilma W PH
3237 Longfellow Blvd
St Louis, MO 63104
314-658-1041

Claycomb, Gerald K DR
232 S. Woods Mill Rd.
Chesterfield, MO 63017
314-434-1500

Clement, Richard W PS
4989 Barnes Hosp Plaza 17424
St. Louis, MO 63110
314-362-7388

Clendenin, William W P
5615 Pershing Ave. #12
St Louis, MO 63112
314-361-4421

Coates, James G IM
9440 Midland Blvd.
St. Louis, MO 63114
314-241-0600

Cobb, Milton L AN
1425 Forest Ave.
St Louis, MO 63122
314-525-1000

Coben, Lawrence A N
660 S Euclid Box 8111
St Louis, MO 63110
314-362-7171

Cohen, Edward R
17 Vouga Lane
St. Louis, MO 63131
314-441-6730

Cohen, Frank IM
259 Sunway Lane
St Louis, MO 63141

Cohen, Hillard K IM
500 Northwest Plaza #417
St Ann, MO 63074
314-729-9313

*Cohen, Raymond F N
12255 DePaul Dr.#770
Bridgton, MO 63044
314-291-2446

Cohen, Robert S OBG
2821 N Ballas Rd Ste 255
St Louis, MO 63131
314-872-9206

Cokrhame, Jack IM
1125 Graham Rd
Florissant, MO 63031
314-838-5700

Cole, Harry O NS
224 South Woods Mill Rd.
Suite 610
Chesterfield, MO 63017
314-367-8787

Collins, John M GP
6928 Hampton Ave.
St. Louis, MO 63109

Colosi, Nicholas J OPH
1034 S. Brentwood Blvd
505 Univ Club Tower
St. Louis, MO 63117
314-721-0881

Comas, Manuel R OBG
1402 S. Grand Blvd.
St. Louis, MO 63104
314-664-9800

Comens, Ruth C AN
8826 Woodfox
St Louis, MO 63127
314-645-8510

Connors, John P TS
3015 N. Ballas Rd.
St Louis, MO 63131
314-432-1212

Connors, Robert H GS
1465 S. Grand Blvd.
St. Louis, MO 63104
314-577-5629

Conrad, Marshall B ORS
100 N Euclid Ave #510
St Louis, MO 63108
314-367-7138

Convery, Paul B IM
3915 Watson
St Louis, MO 63109
314-644-7100

Cook, Marvin R
5 Portland Drive
St Louis, MO 63131
314-842-5600

Cooksey, Jon D CD
1035 Bellevue Ave. #302
St. Louis, MO 63117
314-645-4664

---

* Doctor of osteopathy

Cooper, Barry J A
10004 Kennerly Rd.
St. Louis, MO 63128
314-842-5252

Cooper, James F GS
12255 DePaul Dr
Suite 830
Bridgeton, MO 63044
314-291-8130

Cooper, Theodore CD
7000 Portage Rd.
Kalamazoo, MI 49001

Cooper, Thomas J PTH
10010 Kennerly
St Louis, MO 63128
314-525-1144

Coordes, Cordie C TS
224 S. Woods Mill Rd. #670
Chesterfield, MO 63017
314-434-3049

Copp, Ralph IM
4989 Barnes Hospital Plaza
St Louis, MO 63110
314-361-0300

Corday, Robt J P
141 N. Meramec Suite 205
St. Louis, MO 63105
314-725-0422

Corder, James C IM
911 S. Brentwood Blvd.
Clayton, MO 63105
314-862-5252

Coronado, Mario A OBG
10004 Kennerly Rd #350
St Louis, MO 63128
314-842-5583

Corry, James M PDA
914 S. 59th St.
Belleville, IL 62223
314-534-6700

Corvalan, Juan C P
10004 Kennerly Rd. #250
St Louis, MO 63128
314-849-3112

Corwin, Kenneth D PS
77 Westport Plaza
St Louis, MO 63146
314-576-1911

Costello, Jos P IM
15145 Baxtor Court
Chesterfield, MO 63017

Costen, William S ORS
224 S. Woods Mill Rd.
Suite 330
Chesterfield, MO 63017
314-576-7013

Costigan, David J IM
10007 Kennerly Rd.
St. Louis, MO 63128
314-849-6869

Covert, Richard A FP
1218 DuMontier Dr.
Manchester, MO 63021
314-394-1367

Cox, James L TS
4989 Barnes Hosp Plaza #3108
St. Louis, MO 63110
314-362-6185

Cox, Mary E P
500 Mercer Manor
Ballwin, MO 63011

Coxe, Wm S NS
Box 8057 660 S. Euclid
St Louis, MO 63110
314-362-3576

Coyne, Patrick M OBG
1245 Graham Rd.#408
Florissant, MO 63031
314-838-1300

Cozart, Duane E IM
224 S. Woods Mill Rd. #500
Chesterfield, MO 63017
314-878-6260

Cradock, Thomas V PDS
1401 South Grand #429
St Louis, MO 63104
314-776-7700

Crafts, David NS
1325 S Grand
St Louis, MO 63104
314-577-8795

Craig, Alan G P
200 S. Sappington
St Louis, MO 63122
314-821-4733

Craver, Jeffrey L PTH
12303 DePaul Dr.
Bridgeton, MO 63044
314-344-6000

Crawford, Katherine J GS
112 Walnut Drive
Carrollton, MO 64633

Crepps, Louis F R
14321 Strawbridge Ct.
Chesterfield, MO 63017
314-569-6000

Crespin, Stephen R IM
777 S. New Ballas Rd.
St Louis, MO 63141
314-432-6688

Criscione, James R EM
246 Grand Ave.
St. Louis, MO 63122
314-965-5600

Criscione, James R Sr. TS
6500 Chippewa #203
St Louis, MO 63109
314-353-1118

Criscione, James S AN
1837 Grassy Ridge
St. Louis, MO 63122
314-965-7000

Crotty, John P TR
818 Upper Cahokia Rd
Cahokia, IL 62206

Croughan, Jack L P
1034 S. Brentwood
#970
St. Louis, MO 63117

Crumpacker, Margaret P
7477 Delmar Blvd.
St. Louis, MO 63130
314-727-8181

• Cruz, Eligio C OBG
224 South Woods Mill Rd.
Suite 450
Chesterfield, MO 63017
314-434-2454

Cubillo, Enrique DR
232 S. Woods Mill Rd.
Chesterfield, MO 63017

Cuddihee, Robert E IM
621 S. New Ballas Rd.
St. Louis, MO 63141
314-569-6344

Cuento, Oblendo A GS
2425 N. Broadway
St. Louis, MO 63102
314-241-4455

Cullum, Albert G OTO
920 Dorchester Ave.
Middlesboro, KY 40965

Cunningham, Edwin J IM
1538 Woodlake Dr.
Chesterfield, MO 63017
314-434-3322

Custer, Philip L OPH
4949 Barnes Hosp Plaza
#17423
St. Louis, MO 63110
314-361-2698

Cusumano, Joseph V US
6319 Alexander Drive
St. Louis, MO 63105

Cutler, Harold M OTO
22 Thorndell Dr.
St. Louis, MO 63117

Czebrinski, Edward W IM
3555 Sunset Office Dr. #208
St Louis, MO 63127
314-821-3900

D'Souza, Benedict PTH
4501 A Manchester Rd.
St. Louis, MO 63110
314-432-8786

D'Souza, Saroj N PD
1465 S. Grand
St.Louis, MO 63104
314-577-5639

Daake, John W Sr. GS
48 Portland Pl
St Louis, MO 63108

Dagartzikas, A K OBG
12902 Tundra
St. Louis, MO 63131
314-838-8000

Dahm, Chas H Jr. OBG
6125 Clayton Road
St. Louis, MO 63139
314-768-3220

Dalton, Arthur R GS
35 N Central Ave
St. Louis, MO 63105
314-726-5225

Dames, Richard J III IM
9012 Manchester Rd.
St Louis, MO 63144
314-962-2170

Dandamudi, Babu R FP
3655 Vista Ave.
St. Louis, MO 63110
314-832-7227

Danforth, Wm H IM
Forsyth & Skinker Blvd.
St Louis, MO 63130
314-889-5100

Daniels, John S IM
4989 Barnes Hospital Plaza
St. Louis, MO 63110
314-362-7825

Danis, Richard K PDS
1401 S Grand
St Louis, MO 63104
314-776-7700

Dankner, Arnold IM
1570 Woodlake Dr.
Chesterfield, MO 63017
314-878-0996

Dankner, Rand E IM
1570 Woodlake Dr.
Chesterfield, MO 63017
314-878-0996

Das, Arabinda N
20 S. 3rd St.
Belleville, IL 62220
618-233-6663

Dash, Ira AN
1 Winding Brook Lane
St Louis, MO 63124
314-481-6670

Dash, Udaya N ORS
6500 Chippewa St
St Louis, MO 63109
314-481-6670

Davidson, John A IM
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-576-0933

Davidson, Morris OTO
35 N Central Ave #238
St. Louis, MO 63105
314-721-5444

Davis, David F III AN
7614 Wydown Apt H
St. Louis, MO 63105
314-367-6345

Davis, Gene L DR
3009 N. Ballas Ste. 131
St Louis, MO 63131
314-432-5284

Davis, Marlou D FP
8417 Midland
St. Louis, MO 63114
314-576-1615

Davis, Martin W IM
911 S Brentwood Blvd #330
St. Louis, MO 63105
314-725-2100

Davis, Mary A P
456 N New Ballas Rd #282
St Louis, MO 63141
314-567-5707

Davis, Ray S PD
522 N. New Ballas #122
St. Louis, MO 63141

Davis, Sheldon OTO
11155 Dunn Rd #201 N.
St Louis, MO 63136
314-355-7770

Deane, Louis V Jr. IM
621 S. New Ballas Rd. #3005
St. Louis, MO 63141
314-569-6168

Debnam, James W Jr. R
391 Madewood Lane
Chesterfield, MO 63017
314-355-6565

Deckert, James J FP
14170 Forest Crest
Chesterfield, MO 63017
314-569-6010

Deeths, Tony M DR
135 Laduemont Dr
St. Louis, MO 63141
314-567-4350

Dehner, Jonathan D R
26 Lorenzo Lane la Due
St Louis, MO 63124
314-997-4482

Deitchman, Robt B P
141 N. Meramec #111
St. Louis, MO 63105
314-862-4455

Del Rosario, Horacio O OM
966 Cabernet Dr.
Chesterfield, MO 63017
314-327-2154

Del Valle, Fernando P
777 S New Ballas Ste W
St Louis, MO 63141
314-569-0811

Delcau, Carey M GP
901 Clayton Road
Ballwin, MO 63011
314-391-1001

Denes, Bela U
11155 Dunn Rd. #206E
St. Louis, MO 63136
314-644-4829

Denk, Alan F GS
3017 Fallbrook
St Louis, MO 63131
314-644-6300

Dennison, Carl F FP
3908 S. Grand
St. Louis, MO 63118
314-771-0045

Deshpande, V IM
15345 Country Ridge Dr.
Chesterfield, MO 63017
314-344-6365

• Doctor of osteopathy.

Destouet, Judy R
1126 Bass Wood Lane
St Louis, MO 63132
314-362-2822
Deutch, Max PD
29 Willow Hill Rd
St Louis, MO 63124
Devabhaktuni, Rama Devi FP
327 Royal Village Dr.
Manchester, MO 63011
314-394-0339
Devine, John B PUD
85 Willmore Rd
St Louis, MO 63109
314-351-4105
Devineni, V. Rao R
4939 Audubon Suite 5500
St. Louis, MO 63110
314-362-7034
Dew, Thomas A PUD
224 S. Woods Mill
Chesterfield, MO 63017
314-576-6700
Dewald, Paul A P
4524 Forest Park Blvd #200
St Louis, MO 63108
314-367-5817
Dewein, Edward G P
621 S New Ballas Rd
St Louis, MO 63141
314-567-9871
DeCastro, Fernando J PD
6125 Clayton Ave. #130
St Louis, MO 63139
314-768-3448
DeGuerre, Ronald K U
11155 Dunn Rd.
St. Louis, MO 63136
314-739-8844
DeLeon, Romualdo V IM
525 Jeffco Blvd
Arnold, MO 63010
314-296-3322
DeMarchena, Octavio N
Barnes Hosp Plaza Ste 16304
St. Louis, MO 63110
314-367-3122
DeSilva, Ananda PD
1245 Graham Rd.
Suite 503
Florissant, MO 63031
314-838-1166
DeUngria, Pablo C OBG
6400 Clayton Road #402
St Louis, MO 63117
314-644-6633
DeVera, Anson E AN
5085 Reynosa Dr
St Louis, MO 63128
314-894-1371
Dick, Earl P
7314 Forest Haven Estates
St Louis, MO 63123
314-487-0400
Dick, Mary M P
141 No Meramec Ave.
Suite 205
St. Louis, MO 63105
314-725-1670
Dickler, Donald J AN
833 Audubon Dr
St Louis, MO 63105
314-454-7954
Diehr, Maurice A GS
1530 Bedford Forge Ct.
Apt 14
Chesterfield, MO 63017
Diemer, Peter A R
12302 Ironstone
St Louis, MO 63131
314-878-4680
Diestelhorst, James A IM
3000 N. Ballas Rd. Suite 304
St. Louis, MO 63131
314-878-4430
Dillard, Burl M GS
533 Couch Ave. #G90
St. Louis, MO 63122
314-821-1883
DiCecco, Charles J IM
1905 Falling Tree Ct.
Chesterfield, MO 63017
314-831-6304
DiLeo, Senatro W OBG
34 Ridgetop
St. Louis, MO 63117
DiPasco, Donald J IM
533 Couch Ave. Suite 255
St Louis, MO 63122
314-822-9400
Dmytryk, Eugene T GS
305 W. Jackson Rd.
St. Louis, MO 63119
314-567-9928
Dodge, Philip R CHN
410 N. Newstead
St Louis, MO 63108
314-454-6005

Doerr, Dale E ORS
3533 S. Jefferson Suite 317
St. Louis, MO 63118
314-664-8600
Dohrn-Weisman, Renate OBG
#33 Woodcrest Dr.
St. Louis, MO 63124
314-291-3770
Doisy, Philip P IM
325 N Kirkwood Rd
St. Louis, MO 63122
314-822-0635
Doisy, Robt A IM
103 Edwin
St. Louis, MO 63122
314-821-5051
Dolan, John T Jr. GS
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Dolan, Patrick H AN
947 Town & Country Estates
Town & Country, MO 63141
Dolan, Renee C IM
947 Town & Country Estates
Town & Country, M0 63141
Donahoe, James L PD
37 West Brentmoor
Clayton, MO 63105
Donaldson, Robt C PS
501 Wellshire Ct.
Ballwin, MO 63011
314-652-4100
Donati, Robt M NM
1402 S. Grand
St Louis, MO 63104
314-664-9800
Donley, Leo F GS
2425 N Broadway
St Louis, MO 63102
314-241-4455
Donovan, John F GS
10007 Kennerly Rd.
St Louis, MO 63128
314-849-2727
Donovan, Thos J OTO
615 S. New Ballas Rd. #7008
St Louis, MO 63141
314-725-4994
Dooley, Joseph M Jr. N
315 Oakwood Ave.
St. Louis, MO 63119
314-878-1911
Dorton, Robt K IM
911 S Brentwood Blvd #220
St Louis, MO 63105
314-862-5252
Dougherty, Charles H PD
13131 Tesson Ferry Rd.
St Louis, MO 63128
314-843-0500
Dowell, Geo H P
3009 N Ballas Rd.
Suite #110
St Louis, MO 63131
314-567-5000
Doyle, Chas R GS
9053 Monmouth Dr.
St Louis, MO 63117
Drace, Charles C Jr. GS
9313 Manchester Suite 109
St Louis, MO 63119
314-962-3200
Drake, William L Jr. PTH
537 Lee Ave.
St Louis, MO 63119
Drescher, Emmett B GS
619 Haverford Rd.
St Louis, MO 63124
314-725-8444
Drews, Robt C OPH
211 N Meramec #204
St Louis, MO 63105
314-721-0854
Drey, Norman W IM
816 S. Hanley Rd.
St.Louis, MO 63105
314-863-1211
Dreyer, Carl J OBG
45 Glen Road
St. Louis, MO 63119
314-961-2981
Drozda, Joseph P Jr. CD
12255 Depaul Dr. #460
Bridgeton, MO 63044
314-291-8824
Druck, Norman S OTO
224 S. Woodsmill Rd. #690
Chesterfield, MO 63017
314-434-1400
Dubuque, Theodore J Jr. GS
9043 Ladue Road
St Louis, MO 63124
Duemler, Robt H OBG
12166 Old Big Bend Blvd #100
St. Louis, MO 63122
314-821-3500

Duffy, Francis G AN
8116 University Dr
St Louis, MO 63105
314-361-1212
Duggan, John J Jr. OBG
415 West Jefferson #304
St Louis, MO 63122
Dugger, David E OB
11132 S. Towne Square #104
St. Louis, MO 63123
314-894-6700
Dumadag, Virgilio P PTH
3015 N Ballas Rd
St Louis, MO 63131
314-432-1212
Dunn, Robert C Jr. NS
621 S. New Ballas Rd.
St. Louis, MO 63141
314-569-3620
Durbin, Patrick H IM
30 Willow Drive
Fairview Hghts, IL 62208
618-398-6106
Durel, Justin H OBG
2821 N. Ballas Rd.
St. Louis, MO 63131
314-872-7400
Durr, Jon W PTH
2040 Concourse Dr.
St Louis, MO 63146
314-432-1850
Dusek, Dennis A ORS
1745 Topping Rd.
St. Louis, MO 63131
314-849-0311
DuMontier, Alan J FP
16826 Kehrsbrooke
Chesterfield, MO 63017
314-532-5572
Dyer, Dallas J IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Dzundzev, Penco T FP
16 Hampton Village Plaza
St Louis, MO 63109
314-832-2191
Eachempati, Rama G NM
14499 Ladue Rd.
Chesterfield, MO 63017
Eachempati, Uma R OBG
4150 Jeffco Blvd.
Arnold, MO 63010
314-464-1000
Eades, Jos W PS
4910 Forest Park
St Louis, MO 63108
314-367-5012
Ebel, Eugene H PD
1230 Hollins Dr.
St. Louis, MO 63135
314-838-5900
Eberle, Vincent L OBG
2821 N. Ballas Rd. #105
St Louis, MO 63131
314-846-2694
Eck, Birkle IM
950 Francis Place #211
St Louis, MO 63105
314-726-2828
Ecker, Desider B FP
5350 Kenrick Park Dr. #102
St. Louis, MO 63119
Eckert, Clarence T GS
2295 Gulf Of Mexico Dr
Apt. 82 - South
Longboat Key, FL 33548
Edele, Eugene H FP
3890 Federer Pl
St Louis, MO 63116
314-352-3770
Edelman, Alan H DR
3009 N. Ballas Ste. 131
St. Louis, MO 63131
314-432-5284
Edwards, James E CHP
14377 Woodlake Dr. #301
Chesterfield, MO 63017
314-569-6586
Edwards, Jos C IM
4989 Barnes Hosp Plaza #2107
St Louis, MO 63110
314-367-3744
Egan, Robt C GS
1034 S. Brentwood Blvd.
Suite 776
St Louis, MO 63117
314-863-6006
Egan, Thos F R
9852 Northbridge
St Louis, MO 63124
314-434-1500
Eggleston, Harry C OPH
621 S New Ballas Rd #228
St Louis, MO 63141
314-872-8824
Eggleston, Thos F OPH
621 S New Ballas #5003
St Louis, MO 63141
314-991-5533

---

* Doctor of osteopathy

Ehrlich, Carl F OTO
3009 N Ballas Rd. #212
Suite 212
St Louis, MO 63131
314-567-6533
Eidelman, Jack R P
141 N Meramec
St Louis, MO 63105
314-862-0555
Eisen, Arthur Z D
Barnes Hosp Plaza
St Louis, MO 63110
314-362-6970
Eisenmann, Jesse H IM
4949 West Pine 5-0
St. Louis, MO 63108
314-376-3302
Eisermann, Juergen G OBG
1870 Dougherty Estates Dr.
Ballwin, MO 63011
314-362-1242
Ekunno, Josiah O OBG
Box 5340
St. Louis, MO 63115
314-385-9904
Elcock-Skimming, Devera M FP
2326 Claymoor Dr.
Chesterfield, MO 63017
314-525-1905
Eliasson, Sven G N
660 S Euclid
St Louis, MO 63110
314-362-7171
Eller, Chas H PH
250 E Alameda #515
Santa Fe, NM 87501
Ellersieck, Dorothy M FP
11160 Village North Dr.
Apt Oakwood 117
St Louis, MO 63136
Elliott, John D AN
15951 Sewell Ct.
Chesterfield, MO 63017
314-532-2515
Ellis, Herman M GPM
800 N. Lindbergh Blvd.
St. Louis, MO 63167
314-694-8806
Ellsasser, James C ORS
1034 Brentwood Blvd #294
St Louis, MO 63117
314-725-0881
Emeran, George J U
600 North Union
St Louis, MO 63108
314-367-1828
Epstein, James M IM
3009 N. Ballas Rd. #100
St Louis, MO 63131
314-432-1111
Ernst, Edwin C Jr. R
8 Coach-N-Four
St. Louis, MO 63131
Ernst, Edwin C III DR
3466 Bridgeland Dr. Ste 105
Bridgegon, MO 63044
314-291-0340
Ernst, Jos G IM
3466 Bridgeland Dr. #105
Bridgeton, MO 63044
314-966-7265
Ernst, Richard E R
12255 DePaul #5
Bridgeton, MO 63044
314-878-4680
Ernst, Roland P R
12327 Creekhaven
St Louis, MO 63131
314-878-4680
Escobedo, Bolivar M OBG
13975 Manchester Road
Manchester, MO 63011
314-394-6070
Escoffery, Richard F OPH
4949 Barnes Hospital #17413
St Louis, MO 63110
314-367-1181
Esslinger, Arthur T OBG
816 Idlewild Way
Sarasota, FL 34242
Esther, James H IM
3009 N Ballas Suite 100
St. Louis, MO 63131
314-432-1111
Eto, Jackson K PD
6651 Chippewa St #211
St Louis, MO 63109
314-644-2727
Ettelson, Charles D PS
224 S Woods Mill Rd. #420
Chesterfield, MO 63017
314-878-7770
Evans, Lawrence G Jr. ORS
950 Francis Place #14
St Louis, MO 63105
314-862-2012
Evens, Ronald G R
510 S Kingshighway
St Louis, MO 63110
314-362-7100
Eversoll, Norton J OS
1455 Tyler St
Hollywood, FL 33020
Exarhou, Klark GS
3009 N. Ballas Rd. #206
St Louis, MO 63131
314-569-3838
Fabian, Leonard W AN
660 S Euclid
St Louis, MO 63110
314-362-6973
Fabito, Daniel C GS
10004 Kennerly Rd. #208B
St. Louis, MO 63128
314-849-1499
Fabito, Melinda A IM
P. O. Box 446
#8 Village Center
Eureka, MO 63025
314-938-4956
Fallon, Richard H GS
4949 Barnes Hosp Plaza
Ste 16306
St Louis, MO 63110
314-362-7831
Farberman, Elliott PD
1125 Graham Rd. Suite 6
Florissant, MO 63031
314-921-7509
Faron, Mark A IM
16862 Kehrsdale Dr.
Chesterfield, MO 63017
Farrell, John S IM
12255 DePaul Dr. #460
Bridgeton, MO 63044
314-291-8824
Farzana, Farida P
100 N. Euclid Ste #501
St. Louis, MO 63105
314-361-6885
Fathman, Anthony E U
224 S. Woods Mill Rd.
Suite 510
Chesterfield, MO 63017
314-434-3433
Favors, Adolphus C Jr. IM
13045 Tesson Ferry Rd.
St. Louis, MO 63128
913-474-4100
Fedak, Michael J IM
401 Pine St.
St. Louis, MO 63102
314-241-8181
Fehlman, Bernard F AN
918 S. Meramec Ave.
St. Louis, MO 63105
314-771-7600
Feibel, Robt M OPH
1034 S Brentwood Blvd
St Louis, MO 63117
314-727-6716
Feit, Robert M U
6500 Chippewa St.
St. Louis, MO 63109
314-351-0155
Feldman, David IM
11501 Lakeshore Dr
St Louis, MO 63141
314-569-2611
Feldman, Mark R OBG
2 Westbury
St. Charles, MO 63301
314-434-7593
Feliciano, Wilfrido C PS
11155 Dunn Rd.
Suite 202e
St. Louis, MO 63136
314-355-5333
Felix, Robt H P
10501 Indian Wells Dr
Sun City, AZ 85373
Feller, Harold H FP
Northland Med. Bldg.
Ste. 201
St Louis, MO 63136
314-382-3334
Fellhauer, Carl M ORS
769 Clubhouse Dr.
Ballwin, MO 63011
Felts, James A AN
660 S. Euclid Ave.
St Louis, MO 63110
314-362-6973
Ferguson, Thos B CDS
4989 Barnes Hosp Plaza
St Louis, MO 63110
314-361-0122
Ferrara, Robert P IM
912 Parkwatch
Ballwin, MO 63011
314-394-2887
Ferrendelli, James A N
517 S. Euclid Ave.
St Louis, MO 63110
314-362-7815
Ferris, Charles W Jr. PTH
3015 N. Ballas Rd.
St. Louis, MO 63131
314-432-1212
Ferry, Richard J N
141 Meramec St #315
St. Louis, MO 63105
314-726-3202
Figueroa, Edduyn CHP
77 West Port Plaza
Suite 359
St Louis, MO 63141
314-434-6260
Figueroa, Eliseo O IM
11155 Dunn Rd #102
St Louis, MO 63136
314-355-2180
Fingert, Hyman H P
4542 Maryland Ave.
St Louis, MO 63108
314-367-6623
Fink, Leroy L GS
11155 Dunn Rd. #303E
St Louis, MO 63136
Finkel, Barney W FP
7210 South Bristol Drive
St Louis, MO 63121
314-385-7500
Finn, Murray E P
1035 Bellevue Ste 202
St Louis, MO 63117
314-644-6200
Finnegan, Jos V IM
11153 Clarissa Drive
St Louis, MO 63141
Fiordelisi, Rocco J GS
6400 Clayton Rd. #107
St Louis, MO 63117
314-644-4220
Fischbein, Lewis C RHU
4949 Barnes Hosp. Plaza
Suite #16422
St. Louis, MO 63110
314-367-9595
Fischer, John R P
#18 Cricklewood Drive
Frontenac, MO 63131
Fischer, Robert IM
533 Couch Ave
St. Louis, MO 63122
314-966-0500
Fish, Virgil O GS
2500 Town & Country La.
St Louis, MO 63131
314-721-5488
Fisher, Linda IM
4664 Pershing Place
St Louis, MO 63108
Fishman, John J AN
7247 N. Roland
St. Louis, MO 63121
314-569-5188
Fishman, Norman IM
224 S. Woods Mill Rd.
Suite 220
Chesterfield, MO 63017
314-469-6224
Fitch, Coy D IM
1325 S Grand Blvd
St Louis, MO 63104
314-577-8760
Fivian, Gerald J OPH
2821 N Ballas Rd #240
St Louis, MO 63131
314-432-2655
Flance, Israel J PUD
4652 Maryland
St Louis, MO 63108
314-267-3113
Flanigan, Geo D OBG
100 N Euclid Ave.
Suite 902
St Louis, MO 63108
314-361-3060
Fleischman, Jay A OPH
3655 Vista Ave
St. Louis, MO 63110
314-772-9200
Fleishman, Alfred IM
920 Guelbreth Lane #106
St Louis, MO 63141
Fletes, James W FP
7270 Natural Bridge Ave
St Louis, MO 63121
314-383-2156
Fliesher, Edward B PD
621 S. New Ballas Rd. #2003
St. Louis, MO 63141
314-569-6150
Flores, Jhonson E AN
442 Cheshire Farm Ct.
St. Louis, MO 63141
Flores-Vega, Carlos H IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Floro, Kenneth E Jr. GS
7822 Tanager Ct.
St. Louis, MO 63119
314-644-2202

---

* Doctor of osteopathy.

Floro, Mariano N GS
11115 New Hallas Ferry
Florissant, MO 63033
314-839-0366
Flotte, Bernard H IM
6 Lila Lane
Florissant, MO 63033
Flotte, Sylvester A IM
11155 Dunn Rd. #207N
St Louis, MO 63136
314-355-8349
Flug, Eric J PD
8919 Pine Acre Rd.
St. Louis, MO 63124
314-966-3324
Flury, Kirk E IM
533 Couch Ave. Ste. 180
St. Louis, MO 63122
314-822-3122
Flye, M. Wayne TS
4989 Barnes Hosp Plaza #5108
St. Louis, MO 63110
314-362-7145
Flynn, Edward IM
9730 E. Watson Rd. #2
St. Louis, MO 63126
314-843-7000
Flynn, John T FP
6627 Bancroft Ave.
St Louis, MO 63109
314-771-2078
Flynn, Jos E GS
621 S New Ballas #437
St Louis, MO 63141
314-872-8386
Fogarty, William M Jr. IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Forand, Joseph M AN
7401 Granbury Circle
St. Louis, MO 63123
314-832-1839
Ford, Lee T ORS
4949 Barnes Hospital Plaza
Suite 11300 W. Pavilion
St Louis, MO 63110
314-362-4080
Ford, Thomas E OPH
P. O. Box 1701
Mishawaka, IN 46544
Forsman, Waldo W IM
4128 S. Lindbergh
St Louis, MO 63127
Forsyth, B. Todd IM
100 N Euclid #1104
St Louis, MO 63108
314-367-8811
Fox, Leon J ORS
903 So. Warson Rd.
St Louis, MO 63124
Fox, Robt E IM
6744 Clayton Rd #218
St Louis, MO 63117
314-645-8050
Fox, Thomas J ORS
6400 Clayton Rd.
St. Louis, MO 63117
314-647-8562
Francisco, Dominic S R
13677 Peacockfarm Rd.
St Louis, MO 63131
314-567-4350
Franklin, Harold A IM
606 S. Meramec
St Louis, MO 63105
Franklin, Max S CD
585 Coeur De Royale #401
St Louis, MO 63141
Frantz, David W TS
3015 No. Ballas Rd.
St. Louis, MO 63131
314-569-5287
Fraser, Danl M TS
1035 Bellevue Ave #211
St Louis, MO 63117
314-644-6300
Frawley, Thos F IM
621 S. New Ballas Rd. #1013
St. Louis, MO 63141
314-569-6934
Frederich, Michael E FP
315 Weatherstone Dr.
Belleville, IL 62221
314-385-7520
Frederick, Raymond O GS
6125 Clayton Ave. Suite 424
St. Louis, MO 63139
314-645-8200
Fredrickson, John M OTO
Dept of Oto.
517 S. Euclid
St. Louis, MO 63110
314-454-2426
Freedman, Ruth S OPH
10287 Clayton Road #400
St Louis, MO 63124
314-991-1172

Freiman, S. Michael OBG
1034 S. Brentwood #616
St Louis, MO 63117
314-727-4333
Friedman, Paul L AN
7332 Cornell
St Louis, MO 63130
314-768-8300

Friedman, Robt H PD
2821 N Ballas Rd #C50
St. Louis, MO 63131
314-432-8602
Friedman, William H OTO
1325 South Grand Blvd.
2nd Floor
St. Louis, MO 63104
314-771-8887
Friedrich, Anthony P EM
775 Harvester
St. Charles, MO 63303
314-441-0400
Friedrich, Ernst R OBG
4911 Barnes Hosp Plaza
St Louis, MO 63110
314-362-1019
Fries, John W R
9002 Sedgwick Place Dr.
St. Louis, MO 63124
314-842-5600
Frumson, Guy H ORS
12255 DePaul #250
St. Louis, MO 63110
314-355-1877
Fry, Robert D GS
216 S. Kingshighway
P.O. Box 14109
St. Louis, MO 63178
314-569-0130
Fujita, Milton T CHP
11906 Manchester Rd.
St Louis, MO 63131
314-822-9222
Fuleihan, Farid M U
621 S New Ballas #322
St Louis, MO 63141
314-569-6296
Funsch, Robert E ORS
7221 Greenway
St Louis, MO 63130
314-645-4600
Furla, August J FP
1695 S. Brentwood Blvd.
St Louis, MO 63144
314-962-4480
Gabrawy, Laila G OPH
422 Scottfield Terrace.
Manchester, MO 63011
314-469-3601
Gado, Mokhtar H N
510 S. Kingshighway
St. Louis, MO 63110
314-362-5950
Gaffney, Caldwell J GS
100 N. Euclid Ave. #1108
St Louis, MO 63108

Gafford, Franklin H IV IM
137 Bellington Lane
St. Louis, MO 63141
314-569-6486
Gagliardo, Joseph P
141 N Meramec #303
St. Louis, MO 63105
314-726-5390
Galakatos, Andrew E OBG
224 S Woods Mill Road
Suite 750
Chesterfield, MO 63017
314-576-9797
Gale, Arthur H IM
2428 Woodson
St. Louis, MO 63114
314-427-2424
Gall, Ira C OBG
621 S. New Ballas #4005
St Louis, MO 63141
314-567-5016
Gandlmayr, Jack M FP
1040 N Mason Rd #104
St Louis, MO 63141
314-434-7400
Gansloser, Wilbert M P
230 S. Brentwood
Clayton, MO 63105
Gantner, Geo E Jr. PTH
1402 S. Grand Blvd.
St Louis, MO 63104
314-664-9800
Gantz, John A NM
6420 Clayton Rd.
St Louis, MO 63117
314-768-8276
Garcia-Ferrer, Eduardo A P
12577 Royal Manor Dr.
St Louis, MO 63141
314-567-5011
Garcia-Ferrer, Eduardo L P
1058 Dutchmill Dr.
Manchester, MO 63011
314-391-6726

Garcia-Ferrer, Magdalena P
12577 Royal Manor Dr.
St. Louis, MO 63141
314-878-9764
Garfinkel, Bernard T IM
522 N New Ballas Rd #149
St Louis, MO 63141
314-567-1902
Garrett, Ted E CDS
621 S. New Ballas Rd. #6017
St. Louis, MO 63141
314-569-6970

Garriga, Francisco J IM
11655 West Florissant
Florissant, MO 63033
314-921-4420
Garvin, Paul J GS
1325 S. Grand Blvd.
St. Louis, MO 63104
314-771-7600
Garvin, Todd J GS
7023 Northmoor
St. Louis, MO 63105
314-726-1952
Gaskin, Fred W P
456 N. New Ballas Rd. #290
St. Louis, MO 63141
314-569-3445
Gatchalian, Felicitas Z IM
6744 Clayton Rd. #218
St. Louis, MO 63117
314-645-8333
Gavini, Rajendra R GS
6500 Chippewa St. Ste. 118
St Louis, MO 63109
314-352-1422
Gearhart, Wilbur H P
3009 N. Ballas Rd.
Suite 110
St Louis, MO 63131
314-567-5000
Gedney, Wm B IM
806 Meramec Station Rd
Valley Park, MO 63088
314-825-2423
Geise, August W NS
224 S. Woods Mill #610
Chesterfield, MO 63017
314-878-2888
Geisse, Guillermo R
6150 Oakland
St Louis, MO 63139
314-645-8505
Gellman, Elliot F PD
456 N New Ballas Rd
St Louis, MO 63141
314-872-8662
Gennaoui, Jad M DR
10010 Kennerly
St. Louis, MO 63128
314-525-1155
Gentsch, Kenneth W CD
65 Frederick Lane
St Louis, MO 63122
George, Philip G ORS
1034 S Brentwood Blvd #650
St Louis, MO 63117
314-721-7325

Gerowin, Lance GS
9408 W Milton
St Louis, MO 63114
314-427-4616
Gerst, Aloysius C PD
2005 Kingsgate
St. Louis, MO 63138
Gerst, James PD
11115 New Halls Ferry Rd
Florissant, MO 63033

Geurin, James R R
6965 Columbia
St. Louis, MO 63130
314-362-7030
Ghosh, Nellie CD
950 Francis Place
St. Louis, MO 63105
314-725-2383
Gibson, Paul H IM
7400 Northmoor
St. Louis, MO 63105
314-725-3703
Gieselman, Ralph V IM
224 S. Woods Mill Rd. #500
Chesterfield, MO 63017
314-878-6260
Gilden, Jerome J ORS
456 N. New Ballas Rd.
Suite 369
St Louis, MO 63141
314-569-1830
Gilpin, Doris C CHP
7452 Amherst Ave
St Louis, MO 63130
314-993-2418
Gilula, Louis A DR
250 Dielman Rd
St Louis, MO 63124
314-362-2916

---

* Doctor of osteopathy

Gimpelson, Richard J OBG
222 So Woods Mill Ste. 400
Chesterfield, MO 63017
314-878-1866

Ginsburg, Jordan H ORS
522 N New Ballas Rd #392
St Louis, MO 63141
314-432-5065

Ginther, James W Jr. IM
6500 Chippewa
St. Louis, MO 63109
314-427-1855

Gladney, John H OTO
100 N Euclid Ave., Ste. 70
St Louis, MO 63108
314-361-8300

Glazer, Harvey S DR
7515 Buckingham Dr. #2-N
St. Louis, MO 63105
314-721-2852

Glines, Michael H PD
12 Meramec Hgts Shopping Ctr
Arnold, MO 63010
314-296-4466

Glogovac, S. Vic ORS
12255 DePaul Dr. #360
Bridgeton, MO 63044
314-291-7181

Gnade, Albert J GS
1052 King Henry Ct.
St Louis, MO 63146

Godar, Sharon A FP
14330 Bramblewood Ct.
Chesterfield, MO 63017
314-771-9196

Goebel, Joan M AN
5128 Jamieson
St Louis, MO 63109

Goebel, Joel A OTO
4911 Barnes Hosp Plaza
St. Louis, MO 63110
314-362-7552

Goell, Robt S OBG
4949 Barnes Hosp Plaza 16306
St Louis, MO 63110
314-362-7831

Gold, Jonathan A NS
11155 Dunn Rd. #211-N
St. Louis, MO 63136
314-291-6556

Goldfarb, Alvin GS
514 Coeur De Royale Dr. #405
St Louis, MO 63141
314-569-0130

Goldman, Arnold M IM
522 N New Ballas Rd #149
St Louis, MO 63141
314-567-1902

Goldman, Gordon M OBG
77 Westport Plaza
Suite 265
St. Louis, MO 63141
314-878-7333

Goldman, Hyman J D
6512 Franks Road
House Springs, MO 63051
413-253-9695

Goldman, Melvin L IM
8631 Delmar #201
St Louis, MO 63124
314-993-2400

Goldring, David PDC
340 N. Price Rd.
St Louis, MO 63124
314-454-6000

Goldring, Sidney NS
Barnes Hosp Plaza
St Louis, MO 63110
314-362-3571

Goldstein, Benjamin IM
2428 Woodson Rd
St Louis, MO 63114
314-427-2424

Goldstein, Marcy A PS
12560 Postgrove
St. Louis, MO 63146
314-725-9105

Goltschman, John P OPH
900 N Hwy 67 Lindbergh
Florissant, MO 63031
314-838-0300

Gomez, Cesar A GS
3009 North Ballas Rd.
Suite 114
St Louis, MO 63131
314-569-2333

Gonzalez, Alicia D P
2821 N Ballas Rd. #C-10
St. Louis, MO 63131
314-432-7375

Goodhope, Karen F DR
11155 Dunn Road Ste 304E
St. Louis, MO 63136
314-355-5030

Goodman, Nathaniel FP
#9 Scarsdale Lane
St Louis, MO 63117

Goran, David A IM
7171 Delmar Blvd.
St. Louis, MO 63130
314-863-0033

Gordon, James M OPH
11155 Dunn Rd #120N
St Louis, MO 63136
314-355-7300

Gottlieb, Charlene C IM
114 N. Taylor St.
St. Louis, MO 63110
314-534-8600

Gould, Ronald J GE
1035 Bellevue Ave. #407
St. Louis, MO 63117
314-645-1344

Gowda, Siddhesh CD
222 So. Woods Mill Rd. #500
Chesterfield, MO 63017
314-851-2936

Grady, Ronald K IM
224 S. Woods Mill Rd. #370
Chesterfield, MO 63017
314-878-2467

Gragnani, John A PM
224 S. Woods Mill Rd. #770
Chesterfield, MO 63017
314-434-6776

Grand, M. Gilbert OPH
4949 Barnes Hosp Plaza 17413
St. Louis, MO 63110
314-367-1181

Grant, John M IM
114 N. Taylor Ave.
St Louis, MO 63108
314-534-8600

Grant, Neville IM
114 N. Taylor Ave.
St Louis, MO 63108
314-534-8600

Graul, Walter P ORS
3434 Tanglewood Terrace
Palm Harbor, FL 33563

Graviss, Edward R DR
1465 S. Grand
St. Louis, MO 63104
314-577-5600

Gray, Gary J IM
911 S Brentwood #208
St Louis, MO 63105
314-727-5336

Green, Morton R OPH
111 W. Lincoln
Belleville, IL 62221
618-234-1774

Green, Wm R FP
7200 Manchester
St Louis, MO 63143
314-645-7744

Gregory, John G U
1325 S Grand
St Louis, MO 63104
314-771-7600

Gresick, Robt J PTH
11 Coach-N-Four Lane
St Louis, MO 63131

Griggs, James Y GS
1400 Fawnvalley
St. Louis, MO 63131

Grubb, Robt L NS
4901 Barnes Hosp Plaza
St Louis, MO 63110
314-362-3567

Grundmann, Wm H ORS
12028 Rosevalley Lane
St Louis, MO 63138
314-721-1700

Guignon, Michael G U
429 Forest Green
St. Louis, MO 63119

Gulick, C. Richard OBG
1034 S Brentwood
St Louis, MO 63117
314-725-9300

Gunn, Walter T FP
4617 Dahlia Ave.
St Louis, MO 63116
314-752-2120

Gupta, Jitendra K IM
14377 Woodlake #101
Chesterfield, MO 63017
314-434-7475

Gursahani, Mohan U
950 Francis Place #214
St Louis, MO 63105
314-863-3800

Gutierrez-Medina, Ernesto IM
525 St. Francois
Florissant, MO 63031
837-372-0000

Gutwein, Michael B IM
3009 North Ballas Rd.
Suite 100
St. Louis, MO 63131
314-432-1111

Guy, Cynthia S AN
23 Sackston Woods
St. Louis, MO 63141
314-569-1653

Guyol, William B Jr. IM
911 Brentwood #208
St. Louis, MO 63122
314-966-5320

Guze, Saml B P
660 S. Euclid Ave. #1812
St Louis, MO 63110
314-362-7005

Habert, Edward R R
10010 Kennerly Rd.
St Louis, MO 63128
314-842-5600

Haddock, James N P
111 Firwood Drive
St Louis, MO 63119
314-863-9001

Hagan, Danl J R
7121 Forsyth
St Louis, MO 63105
314-569-6031

Hagebusch, Omer E PTH
c/o Guaranty Trust
7701 Forsyth Blvd #1200
St. Louis, MO 63105

Hagemann, Paul O IM
23 Frontenac Estates.
St. Louis, MO 63131
314-878-7220

Hagen, Duane Q P
621 S New Ballas Rd #2008
St Louis, MO 63141
314-569-6295

Hagen, Garrett A IM
1035 Bellevue #502
St. Louis, MO 63117
314-645-3400

Hahn, Yoram OBG
6400 Clayton Rd. #402
St. Louis, MO 63117
314-644-3288

Hainline, Sarah W OBG
11078 Patrina Ct.
St. Louis, MO 63126
314-832-3930

Hale, Thomas H IM
13011 Barrett Office Drive
Manchester, MO 63011

Halford, Richard PS
1040 N Mason Rd Ste 205
St Louis, MO 63141
314-878-4530

Hall, Preston C FP
39 Woodcrest Dr
St Louis, MO 63124

Hallazgo, Santiago Y FP
1040 N. Mason #113
St Louis, MO 63141
314-434-1522

Halley, R H U
11155 Dunn Rd Ste 214
St Louis, MO 63136
314-355-5544

Halloran, Mark J IM
621 S New Ballas Rd #419
St Louis, MO 63141
314-432-3456

Halverson, John D GS
4989 Barnes Hosp Plaza #5101
St Louis, MO 63110
314-362-7411

Hamilton, Caldwell K PD
11317 Mosley Lane
St. Louis, MO 63141

Hamilton, Eugene G OBG
222 S. Woods Mill Rd. #620
Chesterfield, MO 63017
314-781-3838

Hamilton, John A OBG
337 Mason Ridge Dr.
St. Charles, MO 63303

Hamilton, William P CD
12828 Fourwinds
St Louis, MO 63131
314-569-6168

Hammerman, Albert M DR
14240 Fingerlake Dr.
Chesterfield, MO 63017
314-454-7230

Hammerman, Harley J DR
211 Hewlett Ct.
St. Louis, MO 63141
314-441-6730

Hammerman, Marc R IM
660 S. Euclid Ave. Box 8121
St. Louis, MO 63110
314-362-7024

Hammond, D. Wade ORS
533 Couch Ave.
Suite 220
St Louis, MO 63122
314-966-0111

Hammcnd, David T CD
3009 N. Ballas Rd.
St Louis, MO 63131
314-432-1111

Hampton, Stanley F A
12 Maryhill Circle
St Louis, MO 63124

---

* Doctor of osteopathy.

Hanaway, Jos N
6400 Clayton #405
St Louis, MO 63117
314-454-1962
Handler, Michael R
12565 Starspur Lane
St. Louis, MO 63146
314-878-5254
Handoyo, Frans S IM
4130 S. Grand
St. Louis, MO 63118
314-752-7370
Hanel, Douglas P DRS
1325 S. Grand Blvd.
St. Louis, MO 63104
314-577-8850
Hanley, Thomas P OBG
1035 Bellevue #208
St. Louis, MD 63117
314-644-6262
Hanna, Fayez A FP
3394 McKelvey
Bridgeton, MO 63044
314-291-6900
*Hanson, Lesley A IM
7224 Lindell Blvd.
St. Louis, MO 63130
314-644-2716
Hantman, Stephen L IM
11155 Dunn Rd. # 312E
St. Louis, MO 63136
314-355-8111
Hanto, Douglas W GS
4989 Barnes Hospital Plaza
Suite 5108
St. Louis, MO 63110
314-362-7320
Hantz, Oscar OTO
1265 Graham Rd.
Florissant, MO 63031
314-878-9089
Hardin, Wm B N
3009 No Ballas Rd.
Suite 209
St Louis, MO 63131
314-567-3663
Hardy, David A U
911 S Brentwood Blvd
St Louis, MO 63105
314-725-6551
Hardy, Guerdan OTO
35 N Central Ave
St. Louis, MO 63105
314-725-7221
Hardy, Patrick J IM
1125 Graham Rd
Florissant, MD 63031
314-838-5700
Harell, Alex ORS
1040 Mason Rd. No. Suite 108
St Louis, MO 63141
314-878-1010
Harford, Carl G IM
660 S. Euclid Ave.
St Louis, MO 63110
314-362-6899
Harkins, Wm B DTO
275 Union Blvd. Apt. 920
St Louis, MO 63108
Harper, Fleming B GS
4989 Barnes Hosp Plaza #6103
St Louis, MO 63110
314-362-7888
Harrison, Lee B IM
44 Ridgemoor Dr
St. Louis, MO 63105
Harrison, Richard L P
9007 Sun Country Trail
St. Louis, MD 63126
314-821-2737
Harshman, David M IM
1031 Bellevue Ave
St. Louis, MO 63117
314-644-3250
Hart, William G Jr. PS
621 S. New Ballas Rd.
Suite 1003
St. Louis, MO 63141
314-567-3737
Hart, William M Jr. OPH
660 South Euclid
St Louis, MO 63110
314-362-7180
Hartman, Paul T P
RR #1, Box 230
Biggsville, IL 61418
Hartman, Richard A DBG
911 S. Brentwood Blvd. # 325
St. Louis, MO 63105
314-721-8852
Hartnett, Anna E P
11 South Meramec
St. Louis, MO 63105
314-727-7700
Hartnett, Thos D P
11 S Meramec
St Louis, MO 63105
314-727-7700
Hartstein, Jack OPH
224 S. Woodsmill Rd. #700
Chesterfield, MO 63017
314-469-1122
Hartwell, Patricia AN
118 Mitchell
Kirkwood, MO 63122
314-645-5058
Harwell, James L PD
35 N Central
St Louis, MO 63105
314-721-2262
Hasenmueller, James J GS
10004 Kennerly Rd
Suite 110
St Louis, MO 63128
314-842-1890
Hasik, Karl J DBG
2745 W Clay Suite K
St. Charles, MO 63301
314-946-1331
Hatfalvi, Bela I AN
15 Middlesex Dr
St Louis, MO 63144
Hatlelid, J. Michael N
6400 Clayton #405
St. Louis, MO 63117
314-454-1962
Haueisen, David C DRS
2900 Lemay Rd.
St. Louis, MO 63125
314-849-0311
Haupt, Herbert A ORS
224 South Woods Mill Road
Chesterfield, MO 63017
314-878-6011
Hawatmeh, Ibrahim S U
10004 Kennerly # 289B
St Louis, MO 63128
314-353-9000
Hawatmeh, Isam S IM
3203 S. Grand Blvd.
St. Louis, MD 63118
314-773-7857
Hawk, Bray O GS
16 Hampton Village # 273
St Louis, MD 63109
314-481-3833
Hawk, Thomas M DRS
6500 Chippewa Suite 327
St. Louis, MD 63109
314-352-4400
Hawker, Wm D DBG
14547 Tramore
Chesterfield, MD 63017
Hawkins, Geo L NS
533 Colebrook #A
St. Louis, MD 63119
314-961-0589
Hayek, Wesley E GS
11115 New Halls Ferry Rd.
Florissant, MO 63033
314-839-0366
Hazan, Joseph DBG
2428 Woodson Rd.
St Louis, MO 63114
314-567-4373
Headrick, John A IM
11133 Dunn Rd # B202
St Louis, MO 63136
314-355-2300
Hegde, Korgi V IM
3915 Watson Rd
St Louis, MD 63109
314-644-7100
Heins, James N IM
631 E. Monroe Ave.
St Louis, MO 63122
314-432-1111
Helbing, Edward J OS
250 Alameda #105
Santa Fe, NM 87501
Heller, Randall L Jr. DBG
1034 Brentwood Suite 946
St. Louis, MO 63117
314-725-9300
Hellweg, Raymond W PD
3220 Parker Rd
Florissant, MO 63033
314-921-4500
Henschel, Eugene V IM
55 Broadview Dr.
St Louis, MO 63105
Henselmeier, Dale M FP
12255 DePaul Drive
Suite 600
Bridgeton, MD 63044
314-291-1074
Her, Kyu S PD
624 Haverford Rd
St Louis, MO 63124
314-644-8408
Herbers, Mark F PD
1611 N Hwy 141
Fenton, MO 63026
314-894-5500
Herbst, Deborah A PD
5328-A Itaska
St. Louis, MO 63109
314-832-1289
Herman, Morris GS
2535 Dakmont Terrace Dr.#105
St Louis, MO 63129
Hernandez, Salvador R DRS
2900 Lemay Ferry #219
St Louis, MO 63125
314-487-6164
Herriford, Merle B U
4520 Newstead Ter
St. Louis, MD 63115
314-261-3300
Herrmann, Virginia M GS
1325 S Grand Blvd.
St. Louis, MO 63104
314-771-7600
Hershey, Falls B GS
621 S New Ballas Rd # 307
St Louis, MO 63141
314-567-6666
Hertel, Ronald C DRS
1034 S Brentwood Blvd #650
St Louis, MD 63105
314-721-7325
Herzog, Godofredo M OBG
77 Westport Plaza
Suite 265
St. Louis, MO 63141
314-878-7333
Herzog, Jacques A OTO
3660 Vista Ave.
St. Louis, MD 63110
314-577-6110
Hesker, Albert E R
232 S. Woods Mill Rd.
Chesterfield, MD 63017
314-434-1500
Hess, John P IM
3009 N. Ballas Road
St. Louis, MD 63131
314-432-2535
Heusler, Anton F P
12255 DePaul Drive
Suite 330
Bridgeton, MO 63044
314-291-7449
Heutel, Lee B FP
7200 Manchester
St Louis, MO 63143
314-645-7744
Hickey, James L DBG
621 S New Ballas Rd
St Louis, MO 63141
314-567-5515
Hicks, Robt S P
777 S New Ballas Rd
St Louis, MO 63141
314-569-2266
Higgins, Philip C DBG
621 S. New Ballas Rd. #207
St Louis, MD 63141
314-432-8505
Hilbert, Paul H FP
2905 Cherokee St
St Louis, MO 63118
314-771-2428
Hildreth, H. Rommel DPH
14475 Greencastle Dr.
Chesterfield, MD 63017
Hill, M. Robert IM
6150 Dakland Ave.
St. Louis, MO 63139
314-645-8510
Hill, Xacadene A FP
4067 Dr Martin Luther King
St Louis, MD 63113
314-535-6859
Hinrichs, James H IM
1351 Thornwick
Ballwin, MO 63011
314-391-7010
Hintze, Paul F IM
431 Forsheer
Ballwin, MO 63011
314-469-6224
Hironimus, John E D
6651 Chippewa St #207
St Louis, MO 63109
314-645-5320
Hirshberg, Gary E AN
6316 Waterman Ave.
St. Louis, MO 63130
314-362-6973
Ho, Judith E PD
615 South New Ballas Rd.
St. Louis, MO 63141
314-569-6463
Hobbs, John E DBG
907 Lariat Dr.
Eugene, OR 97402
Hodel, Kenneth A OBG
621 S. New Ballas Rd. #2009
St. Louis, MO 63141
569-688-0000
Hoehn, John P III GS
621 S. New Ballas Rd. #676
St. Louis, MO 63141
314-567-9928

---

* Doctor of osteopathy.

Hoffman, Mark J DR
7820 Cornell Ave.
St. Louis, MO 63130
314-441-6500

Hoffman, Robert J PD
950 Francis Pl #14
St. Louis, MO 63105
314-837-2808

Hoffman, William F N
12255 DePaul Dr. No.
Bridgeton, MO 63044
314-291-6556

Hoffmann, Ronald E ORS
950 Francis Pl Ste 14
St. Louis, MO 63105
314-862-2012

Hoffmann, Sandra S IM
231 E. Argonne
St. Louis, MO 63122
314-921-4949

Hofstatter, Leopold N
768 Glen Vista Dr
St Louis, MO 63122
314-644-8107

Hogan, Cornelius E IM
3650 Loughborough
St Louis, MO 63119
314-773-0898

Hogan, John R IM
1035 Bellevue Ave. # 414
St Louis, MO 63117
314-644-6161

Hogan, Patrick C OBG
10004 Kennerly Rd
St Louis, MO 63128
314-842-3445

Hogan, Patrick A N
1034 S Brentwood
St Louis, MO 63117
314-725-1522

Holder, Barrett K ORS
3009 North Ballas Rd.
P.O. Box 31097
St Louis, MO 63131
314-569-0612

Holemon, R. Eugene P
3009 N. Ballas Rd.
Suite #110
St Louis, MO 63131
314-567-5000

Hollo, Vencel W GS
8 Country Estates Pl
St Louis, MO 63131
314-725-4747

Hollocher, Richard J ORS
621 S. New Ballas Rd. #5015
St. Louis, MO 63141
314-567-5850

Holloman, Walter G DR
11155 Dunn Rd.
Suite 203
St. Louis, MO 63136
314-355-5032

Holloway, Robert B AN
915 N. Grand Blvd.
St. Louis, MO 63106

Holmes, Nancy E PD
35 N. Central
St. Louis, MO 63105
314-721-2262

Holscher, Edward C ORS
234 W Jackson Rd
St. Louis, MO 63119
314-961-9212

Holt, Wm E P
4524 Forest Park Blvd #202
St Louis, MO 63108
314-367-3077

Holtmann, Barbel PS
Dept of An. Wash Univ
660 S. Euclid
St Louis, MO 63110
314-362-6973

Holtz, Alan S GS
4525 Laclede Ave.
St. Louis, MO 63108
314-966-1602

Holtz, Sumner DR
232 S. Woods Mill
Chesterfield, MO 63017
314-361-1212

Hookerman, Bruce J D
12255 DePaul Dr #390
Bridgeton, MO 63044
314-291-2588

Hoover, Bernard L IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100

Horenstein, Simon N
456 N New Ballas Rd. #290
St Louis, MO 63141
314-567-7366

Horner, John L IM
615 Garland Pl
St Louis, MO 63122

Horwitz, Irwin B ORS
900 S. Hanley Rd. #10-D
St. Louis, MO 63105

Houck, William E OBG
1034 S. Brentwood Blvd. #946
St. Louis, MO 63117
314-725-9300

Howe, Albert L IM
300 S Grand
St Louis, MO 63103
314-658-5641

Howe, Louis F FP
516 Sagittarius
Mission, TX 78572

Hruska, Keith A IM
216 S. Kingshighway
St. Louis, MO 63110
314-454-7771

Hu, Raymond J IM
3908 S. Grand
St. Louis, MO 63118
314-771-0045

Hubert, John W IM
430 W. Swon Ave.
St. Louis, MO 63119
314-291-7730

Huck, Richard F Jr. IM
2821 N Ballas #150
St Louis, MO 63131
314-872-9310

Hudgens, Richard W P
777 S New Ballas Rd # 234 E
St Louis, MO 63141
314-569-2266

Huffaker, William H PS
224 S. Woods Mill #470
Chesterfield, MO 63107
314-434-6625

Huggins, Albert M IM
6651 Chippewa St # 214
St Louis, MO 63109
314-644-3997

Hughes, Robt G OM
11745 Olive St. Rd. # 202
St Louis, MO 63141
314-567-5770

Hulbert, Bernard IM
8112 Delmar Blvd
St Louis, MO 63130
314-725-7400

Hummel, Anton J OPH
5203 Chippewa St
St Louis, MO 63109
314-352-1881

Hummel, Rick G IM
2048 Victor St..
St. Louis, MO 63104
314-344-6000

Hummel, Wm C R
456 N. New Ballas Rd. #195
St Louis, MO 63141
314-567-1656

Hunleth, Frank E OBG
5331 Donovan Ave.
St Louis, MO 63109
314-842-7910

*Hunter, Harlen C ORS
14377 Woodlake Dr. Suite 311
Chesterfield, MO 63017
314-878-4446

Hurd, James R GS
417 Long Bow Trail
St. Charles, MO 63301
314-577-5700

Hurley, Joseph J GS
621 S New Ballas Rd
St Louis, MO 63141
314-567-6666

Hutchinson, James H IM
2805 N. Geyer Rd.
St Louis, MO 63131

Hutchinson, William B DR
3009 N. Ballas Ste.131
St Louis, MO 63131
314-432-5284

Ikeda, Shigemasa AN
1325 S Grand
St Louis, MO 63104
314-771-7600

Inman, Max M IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100

Ip, Aidan W PD
2821 Ballas Rd.
St. Louis, MO 63131
314-965-0558

Irvin, Wm M P
1035 Bellevue Ste 202
St Louis, MO 63117
314-644-6200

Ishida, Yasuo OBG
6744 Clayton Rd # 305
St Louis, MO 63117
314-645-6100

Isserman, Michael J OPH
456 N. New Ballas Rd. #118
St Louis, MO 63141
314-432-1134

Ittner, Geo W IM
35 N. Central
St Louis, MO 63105

Iwane, Akira AN
#5 Cricket Ave.
St Louis, MO 63144
314-454-2858

Izmirlian, Grant FP
1040 N Mason Rd
St Louis, MO 63141
314-434-7444

Jablonski, Raymond C R
9088 Fernald
St. Louis, MO 63123

Jackson, Darwin C OBG
6125 Clayton Suite 314
St. Louis, MO 63139
314-644-5144

Jacob, Karl A NS
777 S. New Ballas Rd. #129 W
St Louis, MO 63141

Jacobs, Chas C OTO
111 Church St. # 212
St Louis, MO 63135
314-521-1414

Jacobs, Frederick A PD
10929 Abbott Ave
Sun City, AZ 85351

Jacobs, Richard D IM
1315 Lombez Dr.
Ballwin, MO 63011
314-894-8005

Jain, Savitri G IM
13 Brentmoor Park
St Louis, MO 63105
314-821-9140

Jain, Sumer C AN
12122 Carberry Pl
St. Louis, MO 63131
314-344-7047

Jarvis, Cathy C IM
493 St. Francois
Florissant, MO 63031
314-391-5652

Jatala, Ijaz A P
1810 Manor Hill Rd
St Louis, MO 63131
314-621-4300

Jaudon, Jos C PD
55 S Gore
St Louis, MO 63119

Javdan, Ron IM
14220 Tullytown
Chesterfield, MO 63017
314-434-1399

Jean, J T IM
4989 Barnes Hosp Plz. #6101
St Louis, MO 63110

Jenny, Arthur B NS
4901 Barnes Hosp. Plz.
St Louis, MO 63110
314-362-3580

Jensen, Joshua E II GS
11155 Dunn Rd.
11155 Dunn Rd
St Louis, MO 63136
314-741-3400

Jensen, Joshua E GS
11155 Dunn Rd. #303
St Louis, MO 63136
314-741-3400

Jick, Sidney CD
10287 Clayton Rd
St Louis, MO 63124
314-997-3212

Joffe, Wm S OPH
211 N Meramec Ave #301
St. Louis, MO 63105
314-726-0025

Johans, Thomas G AN
621 S. New Ballas
St. Louis, MO 63141
314-872-8221

Johnson, Chas J PS
11709 Old Ballas Apt. 201
St. Louis, MO 63141
314-993-8281

Johnson, Courtney R PD
5083 Westminster Pl
St. Louis, MO 63108
314-361-5346

Johnson, Frank E GS
1325 S. Grand Blvd.
St. Louis, MO 63104
314-771-7600

Johnson, Michael K OBG
4949 Barnes Hospital
Suite #16310
St. Louis, MO 63110
314-361-0313

Johnson, Mitchell D GS
48 Clearview Park
St. Louis, MO 63138
314-741-5779

Johnson, Randy G IM
3535 S. Jefferson #304
St. Louis, MO 63118
314-771-6660

---

* Doctor of osteopathy.

Johnson, Steven M PTH
1038 Coddington Way
St. Louis, MO 63132
314-997-5824
Johnson, Tom A FP
615 So New Ballas Rd
St Louis, MO 63141
314-569-6010
Johnston, Glen P OPH
4949 Barnes Hosp Plz #17413
St Louis, MO 63110
314-367-1181
Johnstone, John T IM
206 W Argonne # 201
St. Louis, MO 63122
314-966-3400
Joist, Johann H IM
1325 S. Grand Blvd.
St. Louis, MO 63104
314-771-7600
Jones, Bruce N ORS
224 Woods Mill Rd. South
Suite 255
Chesterfield, MO 63017
Jones, Dorothy J PD
6 Glen Creek Lane
St Louis, MO 63124
Jones, Georgia A P
621 S. New Ballas Suite 374
St. Louis, MO 63141
314-569-2048
Jones, James H OPH
1035 Bellevue Ave
St Louis, MO 63117
314-647-4034
Jones, Otey S FP
2010 Longfellow
St Louis, MO 63104
Jones, Richard A IM
332 Calvert Ave.
St. Louis, MO 63110
314-567-4174
Joseph, Harold J IM
450 N. New Ballas Rd. # 201
St Louis, MO 63141
314-872-8740
Joseph, Mary G IM
6304 South Grand
St. Louis, MO 63111
314-352-1422
Joslyn, Harold L GE
1930 Tile Factory Rd.
Mt Vernon, IN 47620
Jost, Chas A FP
2 Bellerive Acres
St. Louis, MO 63121
Jotte, Richard P IM
10300 St. Charles Rock Rd.
St. Ann, MO 63074
314-427-2022
Jotte, Richard F FP
10300 St Charles Rock Rd
St Ann, MO 63074
314-427-2022
Judd, Donald R TS
6125 Clayton Ave. #208
St Louis, MO 63139
314-649-5525
Juergens, Wm G IM
1034 S Brentwood Blvd
St Louis, MO 63117
314-721-0666
Julien, Rene GS
P. O. Box 852
East St Louis, IL 62203
618-271-4090
Kabir, Mohammed A P
3555 Sunset Office Dr. #203
St Louis, MO 63127
314-576-9929
Kaczmarek, Ellen IM
7563 Wellington Way
St. Louis, MO 63105
314-353-5190
Kairuz, Bartolome C FP
10004 Kennerly Rd
St Louis, MO 63128
314-843-4444
Kaiser, Geo C GS
1325 S Grand Blvd
St Louis, MO 63104
314-771-7600
Kamakas, Nicholas C PD
1245 Graham Rd
Florissant, MO 63031
314-838-3800
Kamenetzky, Stephen A OPH
4910 Forest Park
Suite 300
St Louis, MO 63108
314-367-0074
Kaminski, Donald L GS
1325 South Grand Blvd.
St Louis, MO 63104
314-577-6125

Kang, Johanna J AN
14012 Margaux Ln.
Chesterfield, MO 63017
314-362-6978
Kang, Juan PTH
11133 Dunn
St Louis, MO 63136
314-355-2300
Kannegiesser, Hartmut IM
1446 Dietrich Oaks Dr.
Ballwin, MO 63011
314-658-5640
Kantor, Owen IM
4949 Barnes Hospital Plaza
Suite #16422
St Louis, MO 63110
314-367-9595
Kaplan, Alex H P
4524 Forest Park Blvd # 208
St Louis, MO 63108
314-367-6243
Kappesser, Netajean G FP
55 Fair Oaks Dr
St Louis, MO 63124
314-966-1500
Kappesser, Roland C AN
55 Fair Oaks
St Louis, MO 63124
Kardesch, Milton IM
9293 Watson Rd.
St Louis, MO 63126
314-962-9878
Karl, Michael M IM
4652 Maryland Ave
St Louis, MO 63108
314-367-3113
Karsh, Robt S IM
2428 Woodson Rd
St Louis, MO 63114
314-427-2424
Kasinadhuni, Udayshanker AN
12853 Hickory Woods Dr.
St. Louis, MO 63131
314-771-7600
Kass, Michael A OPH
660 S Euclid
St Louis, MO 63110
314-362-7088
Katsantonis, George OTO
8 Green Briar
St Louis, MO 63124
314-647-5854
Kaufman, Robt L IM
456 N New Ballas Rd
Suite 299
St Louis, MO 63141
314-569-1090
Kaup, Chandra S IM
1125 Graham Rd
Florissant, MO 63031
314-838-5700
Kayes, Jack OPH
211 N Meramec # 202
St Louis, MO 63105
314-863-4200
Kaza, Ramarao U
3655 Vista Ave. Lower Level
St Louis, MO 63110
314-832-7227
Keating, James P PD
400 S. Kingshighway
St Louis, MO 63110
314-454-6006
Keffler, Karl L FP
430 Clif-Side Dr.
St Louis, MO 63122
314-781-3737
Keller, Maurice J PD
9049 Clayton Rd.
St Louis, MO 63117
Keller, Stephen M R
8901 Raleigh Dr.
St. Louis, MO 63123
314-569-6000
Kellett, John G FP
2900 Lemay Ferry Rd.
St. Louis, MO 63125
314-892-3500
Kelly, John J IM
3009 No. Ballas Rd.
St Louis, MO 63131
314-432-1111
Kelly, R E OM
665 S. Skinker
St Louis, MO 63105
314-621-4300
Keltner, Raymond M Jr. GS
1325 S Grand
St Louis, MO 63104
314-771-7600
Kendis, Jos B IM
19 Warson Terrace
St Louis, MO 63124
314-567-5011
Kenney, John D ORS
6400 Clayton Road
St Louis, MO 63117
314-645-6051

Kennington, L J FP
14382 Woodlake Dr.
Chesterfield, MO 63017
314-434-3333
Kessel, James W OBG
3009 N. Ballas Rd. Suite 142
St Louis, MO 63131
314-432-8388
Kessler, Sheldon PD
12255 DePaul Dr., Suite 490
Bridgeton, MO 63044
314-739-5333
Keyes, E L GS
900 S Hanley Rd
St Louis, MO 63105
Khan, Abdul G PD
4150 Jeffco Blvd.
Arnold, MO 63010
314-464-1000
Khan, Altaf A GE
325 N. Kirkwood # 210
St Louis, MO 63122
314-966-6790
Kielmovitch, Izak H OTO
1325 S. Grand Blvd.
St. Louis, MO 63104
412-422-1261
Kienzle, Edward FP
P. O. Box 356
Bonne Terre, MO 63628
Kilgore, John W IM
4431 McPherson Ave.
St. Louis, MO 63108
314-533-3494
Kilker, Donald E FP
3472 Bridgeland Dr. #A
Bridgeton, MO 63044
314-291-8686
Kilo, Chas IM
1227 Fernridge Parkway #110
St Louis, MO 63141
314-567-5529
Kilpatrick, Brian N IM
9071 W. Swan Circle
St. Louis, MO 63144
314-664-9800
Kim, Stanley W R
777 S New Ballas
St Louis, MO 63141
314-567-4350
Kim, William W AN
1325 S Grand Blvd
St Louis, MO 63104
314-771-7600
Kimelman, Nathan IM
21 Granada Way
St Louis, MO 63124
314-781-3400
King, Donald K IM
445 Cannonbury
St. Louis, MO 63119
314-962-7820
King, Eustace E III FP
1559 Charlemont Dr.
Chesterfield, MO 63017
King, Francis C FP
1 Whitehall Court
St. Louis, MO 63144
King, John V Sr. FP
1850 Ironstone Drive
St Louis, MO 63131
314-569-6010
King, John V Jr. PUD
3394 McKelvey Rd.
Bridgeton, MO 63044
314-739-5070
King, M. Kenton IM
660 S Euclid
St Louis, MO 63110
314-362-6830
Kingsland, Robert C IM
10 Brookwood Rd.
St Louis, MO 63131
Kinsella, Edward D GE
1035 Bellevue
St. Louis, MO 63117
314-645-1344
Kinsella, Laurence J GS
645 S. New Ballas Rd # 3A
St. Louis, MO 63141
314-645-8154
Kinsella, Peter W IM
1035 Bellevue
St Louis, MO 63117
Kinsella, Ralph A Jr. IM
6305 Westminster Pl
St Louis, MO 63130
314-577-8000
Kipnis, David M IM
660 S Euclid
St Louis, MO 63110
314-362-7020
Kissane, John M PTH
660 S. Euclid
St Louis, MO 63110
314-362-7447
Kissel, John H IM
6934 Delmar Blvd.
St. Louis, MO 63130
314-362-4985

---

* Doctor of osteopathy

Kistler, W. David Jr. IM
950 Francis Place # 113 W
St. Louis, MO 63105
314-721-0411

Kistner, Wm F PUD
621 S New Ballas Rd
St Louis, MO 63141
314-569-3161

Kitchen, Alice D P
1221 South Grand Ave.
St. Louis, MO 63104
314-771-6400

Klein, Bert H FP
34 N Ridgewood Ave
Arcadia, MI 49613

Klein, Saul J U
456 N New Ballas Rd # 315
St Louis, MO 63141
314-567-6071

Knight, James W GS
7520 Natural Bridge
Suite 101
St. Louis, MO 63121
314-385-7300

Knight, Wm A Jr. GE
1035 Bellevue Ave. # 503
St Louis, MO 63117
314-645-3400

Knock, Henry L PD
325 N. Kirkwood Rd.
St. Louis, MO 63122
314-966-8728

Knopf, Harry L OPH
211 N Meramec St # 202
St. Louis, MO 63105
314-863-4200

Knowles, R. Raymond P
46 Wilshire Terrace
St Louis, MO 63119
314-725-0667

Knowlton, Norman P Jr. IM
14 Oakleigh Ln
St Louis, MO 63124
314-361-7660

Kodner, Ira J CRS
216 S. Kingshighway
St Louis, MO 63110
314-454-7177

Koehler, Geo A IM
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-576-5014

Koenig, Marvin I OPH
900 N Hwy 67 Lindbergh
Florissant, MO 63031
314-838-0300

Koerner, Kenneth A PD
12940 Topping Estates
St Louis, MO 63131
314-432-1854

Kolker, Allan E OPH
4901 Barnes Hosp plz
St Louis, MO 63110
314-362-7088

Kopelson, Jeffrey C FP
c/o Med. First
919 Manchester
Ballwin, MO 63011
314-227-8880

Kopen, Dan F GS
480 Pierce St. Suite 318
Kingston, PA 18704
717-826-7680

Kopp, Shelby K OM
11745 Olive Blvd. Suite 202
Creve Coeur, MO 63141
314-567-5770

Korenblat, Phillip E A
10287 Clayton Rd
St Louis, MO 63124
314-997-3212

Korn, Robt L PD
25 Broadview Farm Rd
St. Louis, MO 63141
314-537-0377

Kosuri, Lalitha IM
P.O. Box 5180
St. Louis, MO 63139
314-664-6500

Kotner, Lawrence M IM
1040 N. Mason Rd.
St Louis, MO 63141
314-576-7196

Kotner, Lawrence M Jr. R
270 Bellington Lane
St. Louis, MO 63141

Kouchoukos, Nicholas T GS
216 S. Kingshighway
St. Louis, MO 63110
314-454-7175

Kountz, Paul D JR. DR
1211 Tuxford Drive #3
Creve Coeur, MO 63146
314-991-1971

Kovac, S. Robert OBG
621 S. New Ballas Rd. # 5009
St Louis, MO 63141
314-567-5016

Kowert, Edward H P
4949 Barnes Hosp Plz #16303
St Louis, MO 63110
314-367-3829

Kraeger, Russell R TS
533 Couch Ave. #171
St Louis, MO 63122
314-965-9660

Kraetsch, Robert E IM
4949 Barnes Hospital Plaza
Suite #16422
St Louis, MO 63110
314-367-9595

Krain, Samuel R
17 Briar Cliff
St Louis, MO 63124
314-721-0242

Kraner, Justin F OBG
2428 Woodson
St Louis, MO 63141
314-567-4373

Krantman, Herbert J A
777 S. New Ballas Rd. # 102F
St. Louis, MO 63141
314-569-2015

Krause, G. Lynn GS
224 S. Woods Mill Rd. # 430
Chesterfield, MO 63017
314-576-0060

Kreisman, Jerold J P
621 S. New Ballas Rd. # 4009
St. Louis, MO 63141
314-997-3443

Kreski, Kenneth C IM
3830 Four Ridge Rd.
House Spring, MO 63051
314-647-3990

Kretchmar, Alan P OPH
3009 N Ballas Rd. #213
St Louis, MO 63131
314-872-7263

Krettek, John E NS
224 S. Woods Mill Rd. #610
Chesterfield, MO 63017
314-878-7888

Kreusser, Katherine L PD
8025 Dale Ave.
St. Louis, MO 63117
314-872-8591

Krewet, Frank A III IM
12538 Windmoor Pl
St Louis, MO 63131
314-622-1630

Krieger, John L AN
28 Berry Road Park
St. Louis, MO 63122
314-961-3820

Kriegshauser, James W IM
3915 Watson Rd.
St. Louis, MO 63109
314-644-7100

Kriegshauser, Lawrence A ORS
4949 Barnes Hosp Plaza
St. Louis, MO 63110
314-362-4080

Kroeger, Geo B Jr. OTO
621 S New Ballas Rd
St Louis, MO 63141
314-567-9230

Krojanker, Rolf J P
6651 Chippewa # 315
St Louis, MO 63109
314-644-2395

Kromer, Chas J IM
3545 Lafayette
St Louis, MO 63104
314-664-6500

Kronemer, Norton S PD
12660 Lamplighter Square
D
St Louis, MO 63128
314-849-2400

Kuczer, Arnoldo OTO
14715 Timberway Court
Chesterfield, MO 63017
314-532-5320

Kuebel, Richard J IM
12033 Robyn Park Dr.
St. Louis, MO 63131
314-567-1992

Kuhlengel, Barbara G P
777 S. New Ballas #330 W
St. Louis, MO 63141
314-432-8281

Kuhlman, Ralph F IM
1034 S Brentwood Blvd
St Louis, MO 63117
314-721-0666

Kuhlman, Robert E ORS
4989 Barnes Hospital Plaza
#16301
St Louis, MO 63110
314-367-4338

Kuhn, Lawrence F P
621 S New Ballas
St. Louis, MO 63141
314-997-3443

Kuhn, Nobuko O IM
725 S. Skinker Blvd. #3S
St Louis, MO 63105
314-863-0854

Kulak, Gary P
621 S New Ballas
St Louis, MO 63141
314-567-4470

Kulkarni, Nandini S AN
621 S. New Ballas Rd. # 137
St. Louis, MO 63141
314-569-6880

Kumar, Ravi S AN
1004 Hampton Court
Belleville, IL 62223

Kumari, Vijaya OBG
3009 North Ballas Rd. # 208
St. Louis, MO 63131
314-872-9200

Kunst, Edward J IM
1713 Carman Valley Dr.
Ballwin, MO 63011

Kutryb, Walter J IM
11115 New Halls Ferry Rd
Florissant, MO 63033
314-838-0335

Kwan, Vicente W IM
1 Kwan Plaza
Potosi, MO 63664
314-438-5424

Kyaw, Myo M DR
11133 Dunn Rd
St Louis, MO 63136
314-355-6565

L'Ecuyer, Jerome L PD
9313 Manchester Rd # 103
St Louis, MO 63119

Ladd, Chas B GP
P. O. Box 14490
St Louis, MO 63166
314-843-8700

Laird, John M IM
3009 N. Ballas Rd.
Suite 108
St. Louis, MO 63131
314-872-3620

Lam, Ernesto S GS
142 E Lockwood
St Louis, MO 63119
314-961-4848

Lamb, Wanda P
456 N New Ballas Rd
Suite 282
St Louis, MO 63141
314-567-5707

Lamberg, Robert L OPH
211 North Meramec
St. Louis, MO 63105
314-726-2277

Lamping, J. Daniels OBG
621 S. New Ballas # 7002
St. Louis, MO 63141
314-576-2900

Lampros, Wm P OTO
621 S. New Ballas #419
St Louis, MO 63141
314-781-6212

Landau, David W IM
11155 Dunn Rd #308E
St. Louis, MO 63136

Landau, Wm M N
660 S Euclid Ave
St Louis, MO 63110
314-362-7177

Lander, Robert C ORS
522 N New Ballas #392
St Louis, MO 63141
314-432-5065

Landry, J. Hubert R
3009 N. Ballas Ste. 131
St. Louis, MO 63131
314-432-5284

Landy, Richard PTH
6150 Oakland Ave.
St Louis, MO 63139
314-432-1850

Lane, Clinton W D
950 Francis Pl
St Louis, MO 63105
314-862-0992

Lane, Danl K D
950 Francis Pl
St Louis, MO 63105
314-862-0992

Lang, John J R
507 Fairways Circle
St Louis, MO 63141
314-434-1500

Lange, David R ORS
12255 DePaul Dr. #360
Bridgeton, MO 63044
314-291-7181

Lanier, Earl W FP
2386 N. Hwy 67
Florissant, MO 63033
314-837-0030

Lansche, W. Edward ORS
P. O. Box 31097
St Louis, MO 63131
314-569-0612

---

* Doctor of osteopathy.

Larocca, Felix E. F. CHP
6125 Clayton Suite 215
St Louis, MO 63139
314-567-4080
Larson, Paul U IM
6223 Southland
St Louis, MO 63109
314-664-5500
Lattinville, Henry E NS
12255 DePaul Dr.
Bridgeton, MO 63044
314-291-6556
Lauber, Jos J FP
615 S New Ballas Rd
St Louis, MO 63141
314-569-6010
Lauter, Steven IM
450 N. New Ballas Rd. #201
St. Louis, MO 63141
314-872-8740
Laux, France A PTH
2040 Concourse Dr.
St Louis, MO 63146
314-432-1850
Lawrence, Geo H N
1919 Leisure World
Mesa, AZ 85206
Lawton, John T IM
522 N. New Ballas Rd #355
St Louis, MO 63141
314-432-8014
LaDriere, Raymond J PD
2821 N. Ballas Rd. #C40
St. Louis, MO 63131
314-432-3665
Leach, Wilfred OTO
10004 Kennerly Rd.
St Louis, MO 63128
314-849-1116
Leary, Danl J R
2445 Copper Beech
St Louis, MO 63131
314-567-4442
Lee, Fransiska A ONC
615 So. New Ballas Rd.
St Louis, MO 63141
314-569-6844
Lee, Joseph King Tak R
510 S. Kingshighway
St. Louis, MO 63110
314-362-1053
Lee, Kil S DR
11155 Dunn Rd
St Louis, MO 63136
314-355-2300
Lee, Leander K AN
137 Frontenac Forest
St. Louis, MO 63131
314-432-1212
Leidenfrost, Ronald D IM
7 Overlook Dr.
St. Louis, MO 63124
314-434-3049
Leightner, Wm F IM
550 Bedford
St Louis, MO 63130
314-487-4390
Leming, Bert H PTH
11714 Craigview Dr
St Louis, MO 63141
Lenobel, Milton I ORS
3660 Gulf of Mexico
Apt. A 201
Longboat Key, FL 33548
813-383-3030
Leonhardt, Erwin M IM
10004 Kennerly Rd.
Suite 335
St Louis, MO 63128
314-843-3800
Lerwick, Everett R GS
3009 N. Ballas Ste 216
St Louis, MO 63131
314-567-5377
Levin, Marvin E IM
777 S New Ballas Rd #300E
St Louis, MO 63141
314-432-6688
Levine, Laurence A OTO
4910 Forest Park Suite 212
St Louis, MO 63108
314-454-7875
Levine, Richard S DR
615 S. New Ballas Rd.
St. Louis, MO 63141
314-569-6031
Levitt, Jos IM
8011 Clayton Rd.
St Louis, MO 63117
314-362-2927
Levitt, Robt G DR
510 S Kingshighway
St Louis, MO 63110
314-454-2191

Levy, Jerome F GS
4989 Barnes Hosp Plaza
Suite 17308
St Louis, MO 63110
314-367-9400
Levy, Morton A IM
450 N. New Ballas #102
St. Louis, MO 63141
314-569-0160
Lewin, W. Howard OPH
818 Olive St Suite 450
St Louis, MO 63101
314-421-1749
Lewis, J. Eugene PDS
625 S. Skinker Apt. 903
St. Louis, MO 63105
Lewis, Lawrence M IM
1325 S. Grand
St. Louis, MO 63104
314-771-3065
Lewis, Robert D OPH
10004 Kennerly Rd. 283B
St. Louis, MO 63128
314-842-0582
LeBlanc, Leo J CRS
8038 Davis Dr.
St Louis, MO 63105
Liao, Kun T PTH
11636 Administration Dr
St Louis, MO 63146
314-567-3905
Lichtenfeld, Mark A EM
819 Locust St.
St. Louis, MO 63101
Lieb, Francis X PD
21 Southmoor
St. Louis, MO 63105
Lieberman, David M IM
4989 Barnes Hosp Plaza
St Louis, MO 63110
314-361-5300
Liebhaber, Harvey IM
456 N. New Ballas #228
St Louis, MO 63141
314-991-1766
Lilly, Douglas R NM
621 S New Ballas Rd #419
St Louis, MO 63141
314-432-3456
Lim, Il T AN
197 Seabrook Dr.
Chesterfield, MO 63017
314-434-0600
Lim, Piemsak OBG
3478 Bridgeland Suite #4
Bridgeton, MO 63044
314-291-3770
Lima, Jose A OTO
10004 Kennerly Rd.
St. Louis, MO 63128
314-843-8400
Lin, Hsiu-san TR
510 S. Kingshighway
St. Louis, MO 63110
314-362-7034
Link, Alexander J DR
7215 Maryland
St Louis, MO 63130
314-432-5284
Linn, Richard M ORS
7705 Shirley Dr.
Clayton, MO 63105
314-721-7575
Lins, Robt D PD
129 Baxter Rd.
Manchester, MO 63011
314-391-8710
Lipschitz, Ervin P
777 S New Ballas Rd
St Louis, MO 63141
314-872-7646
Lipsitz, Ellis S IM
100 N Euclid
St Louis, MO 63108
314-367-6528
Lischwe, Daniel H FP
12255 DePaul Drive
Suite 600
Bridgeton, MO 63044
314-291-1074
Liss, Jay L P
763 South New Ballas Rd
#350
St Louis, MO 63141
314-569-0212
Littmann, Lewis E IM
56 Crestwood Dr.
St. Louis, MO 63105
Litzow, Peter L R
1540 E. Swan Circle
St. Louis, MO 63144
Livingston, Don G PD
15274 Manchester
Ballwin, MO 63011
314-527-6960
Loeb, Virgil IM
4989 Barnes Hosp Plaza
#3103
St Louis, MO 63110
314-362-7253

Loeffel, Ellen S GYN
3013 Hawthorne
St Louis, MO 63104
Logan, Samuel E PS
4949 Barnes Hospital Plaza
Suite 17424
St. Louis, MO 63110
314-362-7388
Logan-Morrison, Beverly A IM
8515 Delmar Blvd. #220 W
St. Louis, MO 63132
314-997-6154
Logie, Macdonald B R
13697 Peacock Farm
St Louis, MO 63131
314-361-7373
Lohr, Robt W R
236 Conway Hill Rd
St Louis, MO 63141
Loitman, Bernard S R
10 Washington Terr
St Louis, MO 63112
314-621-3378
Lombardo, Joseph A PTH
11636 Administration Dr.
St. Louis, MO 63146
314-567-3905
Londe, Alan M GS
1040 N. Mason Rd. #121
St Louis, MO 63141
314-434-2518
Londe, Sol PD
2855 Roscamare Rd.
Bel Air, CA 90024
London, Stanley L GS
456 N New Ballas Rd
St Louis, MO 63141
314-569-0131
Lonergan, Warren M IM
4910 Forest Park Ave #320
St Louis, MO 63108
314-361-1167
Long, Frank B OBG
1034 S. Brentwood Blvd.
St. Louis, MO 63117
314-725-9300
Lonsway, Maurice J Jr. PD
8025 Dale Ave
St Louis, MO 63117
314-644-2566
Lord, Richard E ORS
621 S. New Ballas #50
St Louis, MO 63141
314-966-0111
Lottes, J. Otto ORS
2646 Michigan
St Louis, MO 63118
Lowenstein, Paul S GS
18 S Kingshighway Blvd
St Louis, MO 63108
Loynd, Robt C OTO
950 Francis Pl #309
St. Louis, MO 63105
314-727-3070
LoPiccolo, Vincent J Sr. IM
2719 Laclede Road #c
St Louis, MO 63143
LoPiccolo, Vincent J Jr. PD
2821 N Ballas Rd #220
St Louis, MO 63131
314-567-4806
Lubowitz, Herbert IM
8515 Delmar
St. Louis, MO 63124
314-991-1766
Lucas, Thomas G P
12700 Southfork Rd.
St. Louis, MO 63128
314-894-8754
Ludwig, Mark A GS
1040 N. Mason #121
St. Louis, MO 63141
314-434-2518
Luechtefeld, Frank ORS
12255 DePaul Dr
Bridgeton, MO 63044
314-739-7654
Lugo, Saml GS
2900 Lemay Ferry Rd #200
St Louis, MO 63125
314-487-3775
Luh, Andrew M ORS
4110 Von Talge Rd
St Louis, MO 63128
314-894-2404
Luisiri, Atchawee R
1465 South Grand Blvd.
St. Louis, MO 63104
314-577-5652
Lum, Jon T P
9378 Olive Blvd Ste 215
St Louis, MO 63132
314-991-0427
Lund, Herluf G U
10004 Kennerly Rd.
St Louis, MO 63128
314-843-0740

---

* Doctor of osteopathy.

Luther, George A ORS
533 Couch Ave.
Suite 220
St Louis, MO 63122
314-966-0111
Lyles, Thomas O U
11240 Tureen Drive
St. Louis, MO 63141
314-367-8877
Lyman, Edward H OTO
950 Francis Pl #313
St Louis, MO 63105
314-727-3132
Lynch, James M IM
1905 Burlewood Dr.
St. Louis, MO 63146
314-434-1500
Lynxwiler, Chester P PDC
7324 Fernbrook Dr. Apt D
St. Louis, MO 63123
Lyss, Carl A IM
456 N New Ballas Rd
St Louis, MO 63141
314-569-1090
Lyss, Stanley B PD
456 N New Ballas Rd
St Louis, MO 63141
314-872-8662
Lytle, Edwin L PM
648 Lilac Ave.
St. Louis, MO 63119
314-645-8662
Maceren, Rodolfo L AN
108 Camfield Sq Dr.
St. Louis, MO 63141
314-839-3800
Machefsky, Sidney D R
725 Swarthmore Lane
St. Louis, MO 63130
314-725-3444
Machek, Otakar PM
6744 Clayton Rd #316
St Louis, MO 63117
314-645-6606
Mackey, Richard L U
533 Couch Suite 181
St. Louis, MO 63122
314-821-0000
Macleod, Angus IM
3555 Sunset Office Dr
St Louis, MO 63127
314-821-3900
Macnish, James M U
229 N. Bompart
St Louis, MO 63119
MacDonald, Robt R Jr. DR
621 S New Ballas Rd #23
St Louis, MO 63141
314-569-6031
MacDonald, Wm C IM
6744 Clayton Rd
St Louis, MO 63117
314-645-8333
Maddipati, Sreedezi AN
1325 South Grand
St Louis, MO 63104
314-771-7600
Madrid, Dominador O GS
2637 Keokuk Bldg. D
St Louis, MO 63118
314-892-2066
Magee, W. Edwin IM
835 South 8th Street #1A
St Louis, MO 63164
314-982-3120
Mahadevan, Jambunathan IM
13 Clayton Terrace
St. Louis, MO 63131
Mahe, Geo A IM
820 S. McKnight
St Louis, MO 63124
314-727-5336
Maher, Thos F R
621 S New Ballas Rd #19
St Louis, MO 63141
314-567-4442
Mainini, Stephen E IM
1415 Barger Place
St. Louis, MO 63117
314-645-5932
Maitz, Carlos A OBG
500 Northwest Plaza #425
St. Ann, MO 63074
314-291-2614
Majors, Patrick F IM
950 Francis
St. Louis, MO 63105
314-863-7766
Malik, Sarfraz A GE
6651 Chippewa
Suite 218
St Louis, MO 63109
314-781-1580
Malmberg, Virgil L P
3648 Terrace Ln
Granite City, MO 62040
314-567-5000

Maloney, Robt M U
12 Bridle Ln
St Louis, MO 63131
314-351-4433
Malt, Sherwin H GS
800 N. Lindbergh Blvd.
St Louis, MO 63167
314-694-6972
Manansala, Antonio Q FP
1723 Jeffco Blvd P O Box 388
Arnold, MO 63010
314-296-4422
Manion, Maria E CHP
522 N New Ballas Rd
Suite 382
St Louis, MO 63141
314-567-5280
Mannis, Charles I ORS
522 N New Ballas Rd #199
St Louis, MO 63141
314-432-2323
Manske, Paul R ORS
4960 Audubon Ave.
St Louis, MO 63110
314-362-6548
Mantese, Vito A PUD
5043 Winona Ave.
St. Louis, MO 63109
314-577-8000
Mantovani, John F PD
621 So New Ballas Rd #6006
St. Louis, MO 63141
314-569-6515
Maravilla, Levy M GP
4211 Bayless Ave
St Louis, MO 63123
314-638-2448
Marbarger, John P Jr. CDS
621 S. New Ballas Rd. #6017
St. Louis, MO 63141
314-362-7260
Marchosky, J. Alex NS
224 S. Woods Mill Rd.
Suite 610
Chesterfield, MO 63017
314-367-8787
Marcus, Morris D D
8515 Delmar #220E
St Louis, MO 63124
314-991-1174
Margolis, David M GE
11155 Dunn Rd. #107
St. Louis, MO 63136
314-355-4010
Margolis, Robert P N
11155 Dunn Rd.
St. Louis, MO 63136
314-355-3355
Marre, Joyce E OBG
1245 Graham Road Ste 308
Florissant, MO 63031
314-838-1171
Marsh, Jeffrey L PS
400 S. Kingshighway
St Louis, MO 63110
314-362-7390
Marshall, Jay P II IM
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-878-6260
Marshall, William G Jr. GS
216 S. Kingshighway Blvd
St. Louis, MO 63110
314-454-7175
Martin, Danl J OBG
621 S. New Balals Rd. #207
St. Louis, MO 63141
314-432-8505
Martin, David S R
14603 Big Timber
Chesterfield, MO 63017
314-532-9294
Martin, Frederick W OBG
12 Eversdale
St Louis, MO 63124
Martin, Scott A PTH
615 S. New Ballas Rd.
St. Louis, MO 63141
Martin, Virginia L OBG
1869 Calamaide Dr.
Maryland Height, MO 63043
314-768-8780
Martirez, Emmanuel R
12843 Topping Meadows
St. Louis, MO 63131
314-389-6060
Martz, John C PD
P. O. Box 26604
St Louis, MO 63122
Mass, Joan H IM
7366 Princeton
St. Louis, MO 63130
314-837-0505
Massie, Edward CD
4989 Barnes Hosp #4104
St Louis, MO 63110
Masters, Wm H OBG
24 S. Kingshighway Blvd.
St Louis, MO 63108
314-361-2377

Mathew, Ruby OBG
224 S. Woodsmill Rd. #560
Chesterfield, MO 63017
314-878-2233
Matsuba, Howard M ENT
3800 Resevoir Rd.
Washington, DC 20002
Matthews, John G IM
6405 Devonshire
St Louis, MO 63109
314-781-3886
Maughs, Sydney B P
33 Berry Road Park
St Louis, MO 63122
314-721-8242
Maupin, Kathy C OBG
1245 Graham Rd.
Florissant, MO 63033
314-821-5077
Maxson, Katherine A OBG
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-851-2929
Maxwell, Richard W IM
5257 Lindell Blvd.
St Louis, MO 63108
Mayer, Robt A IM
3009 N. Ballas Rd.
Suite #108
St Louis, MO 63131
314-569-3990
Mayes, Ben R DR
12743 Conway Lake
St. Louis, MO 63141
314-434-6793
Mayuga, Edgardo G AN
12474 S. Forty Dr.
St Louis, MO 63141
314-525-1969
McAdam, Chas R FP
4300 Roland Blvd.
St Louis, MO 63121
314-381-0477
McAfee, C. Alan GS
8018 Watkins Drive
St Louis, MO 63105
McAlister, Wm H R
400 S Kingshighway
St Louis, MO 63110
314-454-6000
McCall, Edwin L US
3751 Cedaridge Rd.
Kalamazoo, MI 49008
McCarthy, Christopher IM
4600 S. Lindberg
St. Louis, MO 63127
314-842-5211
McCarthy, John M IM
6400 Clayton #216
St Louis, MO 63117
314-645-2810
McClennan, Bruce L DR
510 South Kingshighway
St. Louis, MO 63110
314-362-1053
McCool, James F IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100
McCown, Allan H R
1034 S. Brentwood Blvd.
St Louis, MO 63117
314-727-0012
McGinnis, Wm F OBG
224 So. Woods Mill Rd
Suite 450
Chesterfield, MO 63017
314-434-2454
McKinney, Joe K P
777 S New Ballas Rd #234E
St Louis, MO 63141
314-569-2266
McKinney, John W OTO
35 N Central #209
St. Louis, MO 63105
314-394-2044
McLaren, A. Lesley FP
3908 S. Grand
St. Louis, MO 63118
314-771-0045
McMullin, Forbes A ORS
12615 Old Tesson Road
St Louis, MO 63128
314-849-0311
McMurray, Herbert C FP
121 Steamboat Lane #6
Ballwin, MO 63011
McNalley, Michael OBG
2425 Fairoyal
St Louis, MO 63131
314-821-1315
McNamara, John J R
6744 Clayton Rd.
St. Louis, MO 63117
314-645-2838
Meador, James R GS
36 Oak Park Drive
St Louis, MO 63141

---

* Doctor of osteopathy.

Meadows, C. Douglas OM
777 S New Ballas Rd #119W
St Louis, MO 63141
314-567-6581
Medler, John F OBG
621 S. New Ballas #4017
St Louis, MO 63141
314-872-9192
Medler, P. Louis D
621 S. New Ballas Rd. #4017
St Louis, MO 63141
314-567-1291
Mehan, Donald J U
1035 Bellevue #406
St Louis, MO 63117
314-644-6767
Mehra, Rachna PD
9700 MacKenzie
St. Louis, MO 63123
314-638-6241
Mehra, Ravinder Jr. IM
4590 S. Lindbergh
St. Louis, MO 63127
314-843-3454
Mehra, Subadh K IM
9700 MacKenzie #105
St Louis, MO 63123
314-638-6241
Mehra, Usha OBG
4590 S. Lindbergh
St. Louis, MO 63127
314-843-3454
Meinberg, Wm H OPH
15515 Lassen St.
Mission Hills, CA 91345
Meiners, David J GS
386 Conway Lake Dr.
St. Louis, MO 63141
314-771-7600
Meiners, Paul N GS
621 S. New Ballas Rd. #521
St. Louis, MO 63141
314-993-2930
Meiners, Theodore M OBG
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-576-0930
Mell, Roger L ORS
224 S. Woods Mill Road
Suite 255
Chesterfield, MO 63017
314-434-3240
Melson, G. Leland DR
510 S Kingshighway
St Louis, MO 63110
314-362-1053
Mendelsohn, George E NS
224 S. Woods Mill Rd.
Suite 610
Chesterfield, MO 63017
314-367-8787
Mendelsohn, Robt S IM
522 N. New Ballas #149
St Louis, MO 63141
314-567-1902
Mendelson, David F N
141 N Meramec Ave #317
St Louis, MO 63105
314-726-3202
Mendonsa, Lawrence E OBG
138 Ridgecrest Drive
Chesterfield, MO 63017
Merenda, Frank J ORS
621 S. New Ballas Rd. #5015
St. Louis, MO 63141
314-567-5850
Merenda, Sam J R
6651 Chippewa LL#2
St Louis, MO 63109
314-647-8893
Merrims, Theodore OBG
8631 Delmar Blvd
St Louis, MO 63124
314-993-5563
Merritt, Burch A PD
12937 Timmor Ct
St Louis, MO 63131
314-383-2953
Mestres, Hugh M PD
12660 Lamplighter Sq
St Louis, MO 63128
314-842-0330
Meyer, Harry E P
621 S New Ballas Rd.
St. Louis, MO 63141
314-997-3443
Meyer, Jay P
763 S. New Ballas Rd
St Louis, MO 63141
314-569-0212
Meyer, John S CLP
232 S. Woods Mill Rd.
Chesterfield, MO 63017
314-851-2983

Meyer, Melvin E OPH
6651 Chippewa
St Louis, MO 63109
314-645-4100
Meyer, Robert C GS
1035 Bellevue Suite 211
St. Louis, MO 63117
314-644-6300
Meyer, Wayne W GS
12255 DePaul Dr.
Suite 755
St. Louis, MO 63044
314-739-6060
Meyerrose, Gary E IM
279 Spring Oaks Drive
Ballwin, MO 63011
314-962-2824
Meyers, Elsie F AN
6364 Alexander Dr
St. Louis, MO 63105
314-362-5604
Meyers, John B IM
120 North Forsyth Blvd.
St. Louis, MO 63105
Meyers, Robt W P
4524 Forest Park Blvd
St Louis, MO 63108
314-367-8424
Michael, Vernon E GS
45 Huntleigh Woods
St Louis, MO 63131
Michaelree, John F FP
921 La Cherie
Manchester, MO 63011
Mick, Robert L P
6400 Clayton Rd. Suite 412
St. Louis, MO 63117
314-647-9100
Middleton, Jerry N OBG
224 S Woods Mill Road
Suite 750
Chesterfield, MO 63017
314-576-9797
Mier, Thos M OBG
900 Oak Haven Dr.
Columbia, MO 65201
314-443-2310
Milder, Barry D OPH
2821 N Ballas Rd.
St. Louis, MO 63131
314-432-7010
Milder, Benj OPH
2821 North Ballas Suite 120
St Louis, MO 63131
314-432-7010
Miles, Paul W OPH
15 Ridge Creek Rd
St Louis, MO 63141
Mill, Wm B JR TR
1601 Featherstone Dr.
St. Louis, MO 63131
Millangue, Consolacion IM
8059 Watson Rd
St. Louis, MO 63119
314-961-8207
Millangue, Rafael M GS
8059 Watson Rd
St. Louis, MO 63119
314-961-8206
Miller, Charles W D
10004 Kennerly Rd.
St. Louis, MO 63128
Miller, Chas Jr. IM
12166 Big Bend Blvd
St. Louis, MO 63122
314-821-9150
Miller, Edward J IM
522 N New Ballas Ste 349
St Louis, MO 63141
314-567-3113
Miller, Geoffrey W P
60 Berkshire
St Louis, MO 63117
314-441-6730
Miller, James E OPH
621 S. New Ballas Rd. #5007
St Louis, MO 63141
314-567-0644
Miller, Jule P P
4524 Forest Park Blvd #204
St Louis, MO 63108
314-367-2660
Miller, Robt N AN
551 High Meadows Rd.
St Louis, MO 63141
314-569-6880
Miller, Wm V CLP
4050 Lindell Blvd
St Louis, MO 63108
314-658-2131
Milstead, Kenneth L Jr. AN
4817 Dorset Ave
Chevy Chase, MD 20015
301-652-8713
Milster, Clyde R OPH
7443 Hibbard Lane
St Louis, MO 63123

Mirbaha, Mitchell M ORS
4110 Von Talge Rd #102
St Louis, MO 63128
314-894-2404
Mischnick, Carol R PS
7305 Manchester Rd. #1000
St. Louis, MO 63143
314-842-5885
Mishkin, Marvin R ORS
522 N New Ballas Rd #199
St Louis, MO 63141
314-432-2323
Miskovsky, Emil F IM
12255 DePaul Dr. Suite 865
Bridgeton, MO 63044
314-291-7730
Missey, Wilburn C IM
2439 Baxton Way
Chesterfield, MO 63017
Mistry, Tehmton S OBG
35 N Central
St Louis, MO 63105
314-727-3439
Mithen, Francis A N
3877 Marietta Ave.
St Louis, MO 63121
314-577-6082
Modin, Jeffrey J CHN
555 N New Ballas Rd.
Suite 100
St. Louis, MO 63141
314-569-0720
Mohrman, Raymond F IM
12255 DePaul Dr.
St. Louis, MO 63044
314-291-8824
Mohs, Frank R IM
12303 Depaul Dr.
Bridgeton, MO 63044
314-344-6264
Molden, C. Scott IM
3009 N. Ballas Rd. #100
St Louis, MO 63131
314-432-1111
Molden, Chas A FP
3472 Bridgeland Dr. #A
Bridgeton, MO 63044
314-291-8686
Monafo, Wm W GS
4989 Barnes Hosp Plaza #5108
St Louis, MO 63110
314-362-7840
Montani, Chas FP
2334 Macklind
St Louis, MO 63110
314-771-4082
Monteleone, James A PD
1465 S. Grand
St. Louis, MO 63104
314-577-5639
Monterubio, Fred R Jr. OBG
515 Timberwyck Dr.
St. Louis, MO 63131
314-429-1900
Montes, Arturo C FP
4585 Washington
Suite C 4
Florissant, MO 63033
314-921-4550
Montes De Oca, Julio IM
950 Francis Pl
St. Louis, MO 63105
314-726-2828
Montgomery, Austin F IM
3009 N. Ballas Rd.
Suite 107
St Louis, MO 63131
314-872-8225
Moolsintong, Pornchai R
447 Twin Creek Rd.
St. Louis, MO 63141
314-768-8250
Moon, Thos R Jr. N
12166 Old Big Bend Blvd #300
St. Louis, MO 63122
314-965-1844
Moore, Alva IM
5142 Raymond Ave
St Louis, MO 63113
Moore, Harry G Jr. CHP
141 N Meramec #107
St Louis, MO 63105
314-726-2770
Moore, Walter L N
71 Wolfram Road
St. Charles, MO 63303
Mora, Alvaro OBG
P. O. Box 28572
St. Louis, MO 63146
314-946-5544
Moran, Christopher J DR
3009 N. Ballas Rd. Ste. 131
St. Louis, MO 63131
314-432-5284
Moran, Thos M P
889 S. Brentwood #203
St Louis, MO 63105
314-727-9541

---

* Doctor of osteopathy.

Morey, Kirk P OPH
1233 Timberbrook
Kirkwood, MO 63122
314-821-7432
Morgan, Harry C ORS
4989 Barnes Hosp Plaza
St Louis, MO 63110
314-361-2253
Morgan, Stephan S OPH
16 Hampton Village Plaza
St Louis, MO 63109
314-351-5330
Morgan, Willy J C U
P. O. Box 14228
St. Louis, MO 63108
618-874-6792
Moritz, Gerald OTO
8020 Daytona Dr.
St. Louis, MO 63105
314-291-8787
Morley, Mary A OBG
224 S. Woods Mill Rd. #530
Chesterfield, MO 63017
314-851-2929
Morris, Alan H ORS
522 N New Ballas Rd #199
St Louis, MO 63141
314-432-2323
Morris, R. William IM
10004 Kennerly Rd. Ste 395B
St. Louis, MO 63128
314-961-0370
Morrison, Arlen E IM
432 Foxbrook Dr.
St. Louis, MO 63141
314-878-2462
Mortensen, Frede IM
3555 Sunset Office Dr.
St Louis, MO 63127
Moses, Robt A OPH
660 S Euclid Ave
St Louis, MO 63110
314-362-3777
Mosley, Julian C GS
3737 N Kingshighway #206
St Louis, MO 63115
314-383-0133
Motchan, Dennis G IM
3394 McKelvey Rd.
Bridgeton, MO 63044
291-341-0000
Motier, Thomas H PD
16 Hampton Village
St. Louis, MO 63109
314-351-2004
Mowrey, Wm O FP
7071 Lindell Blvd.
St Louis, MO 63130
Muchnick, Richard L IM
12494 Tesson Ferry Rd.
St. Louis, MO 63128
314-849-6000
Muckerman, Richard I OBG
621 S New Ballas Rd #625
St Louis, MO 63141
314-567-5515
Muckerman, Richard C II OBG
621 S. New Ballas Rd.
Suite 625
St. Louis, MO 63141
314-567-5515
Mueller, Clarence E IM
2821 N. Ballas C-15
St Louis, MO 63131
314-872-7332
Mueller, Howard A IM
13 Walker Dr.
Bloomington, IL 61701
309-662-0603
Mueller, John J PTH
7300 Christopher Dr.
St. Louis, MO 63129
314-846-9031
Mueller, Jos A FP
2968 Spring Water Dr.
St Louis, MO 63129
Mueller, Morris A IM
4917 Ravenswood Apt 111
San Antonio, TX 78227
Mueller, Robt J P
40 Huntleigh Woods
St Louis, MO 63131
314-351-5509
Mueller, Wilbur K R
9645 Big Bend Blvd
St Louis, MO 63122
Muhammud, Faquir IM
11155 Dunn Rd
Suite 210 E
St Louis, MO 63136
314-355-6700
Mullarky, Wilbur A IM
10646 St Charles Rock Rd
St Ann, MO 63074
314-426-5161
Mullins, John E IM
3009 N Ballas Rd.
St Louis, MO 63131
314-567-6610
Muncy, Gary A AN
427 Herworth
Chesterfield, MO 63017
314-965-4691
Murdock, Nathaniel OBG
4949 Barnes Hosp Pla #16310W
St Louis, MO 63110
361-488-0000
Murphy, Daniel J IM
3394 McKelvey Road
Bridgeton, MO 63044
314-739-5070
Murphy, Wm A Jr. DR
510 S Kingshighway
St Louis, MO 63110
314-362-2916
Muschany, Norman K OBG
224 S. Woods Mill #720
Chesterfield, MO 63017
314-576-6166
Mustoe, Thomas A PS
4949 Barnes Hosp Plaza
St. Louis, MO 63110
314-362-7388
Myers, Gary H N
224 S. Woods Mill Rd. #210
Chesterfield, MO 63017
Myers, Ivan T OBG
35 N Central Ave #355
St Louis, MO 63105
314-727-3439
Nahm, Chung C IM
3535 S. Jefferson Ave #101
St Louis, MO 63118
314-664-2600
Naidu, Gonuguntla IM
10004 Kennerly Rd.
Suite 257
St Louis, MO 63128
314-842-6333
Nakra, Rashmi R P
4949 Barnes Hosp Plaza 16428
St. Louis, MO 63110
314-367-4500
Narayan, Dilip L GE
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-878-8758
Narkiewicz, Lawrence S IM
533 Couch Suite G20
St Louis, MO 63122
314-965-5868
Naseer, Riaz A N
1338 Topping Rd.
St Louis, MO 63131
314-837-6700
Nash, Helen E PD
1441 N Grand
St Louis, MO 63106
314-535-8353
Nash, Homer E Jr. PD
3737 N Kingshighway
Suite 101
St Louis, MO 63118
314-261-5250
Nathan, Lester J GS
777 S New Ballas Rd
St Louis, MO 63141
314-567-5727
Naumovich, Anna D IM
12700 Westport Dr.
St. Louis, MO 63146
314-818-8347
Near, David M GS
1125 Graham Road
Florissant, MO 63031
314-838-5700
Nelson, J. Roger CD
533 Couch Suite G20
St Louis, MO 63122
314-965-5868
Nelson, James S PTH
660 S. Euclid Box 8118
St Louis, MO 63110
314-454-6042
Nelson, Susan J PD
35 N. Central
Clayton, MO 63105
314-721-2262
Nemec, Edward S R
2416 White Stable Rd.
St. Louis, MO 63131
Nemec, Stanley S R
6500 Chippewa Ste 1
St Louis, MO 63109
314-351-1140
Nepute, James A R
615 S. New Ballas Rd.
St. Louis, MO 63141
314-569-6031
Neuman, Neal U
456 N New Ballas Rd
St. Louis, MO 63141
314-567-6071
Newman, Matthew OPH
1034 S. Brentwood Suite 550
St. Louis, MO 63117
314-863-8866
Newport, Gerald OBG
77 Westport Plaza
Suite 265
St. Louis, MO 63141
314-878-7333
Newton, Gordon IM
141 N Meramec Suite 202
St Louis, MO 63105
314-725-8580
Nguyen, Loi D FP
348 Hunters Glen Ct.
Ellisville, MO 63011
314-772-1456
Nicholas, Stephen P IM
6400 Clayton Rd. Suite 216
St. Louis, MO 63117
314-645-2810
Nickel, James F IM
621 S New Ballas Rd #419
St Louis, MO 63141
314-432-3456
Nicolai, Chas H U
3009 N. Ballas Rd.
Suite 215
St Louis, MO 63131
314-432-4575
Niedermeyer, Geo J OBG
4107 Union Rd.
St. Louis, MO 63129
314-849-5575
Nielsen, Carl H AN
660 S. Euclid Ave. Box 8054
St. Louis, MO 63110
314-962-2730
Niesen, Anna R IM
411 Gabriel Dr.
St. Louis, MO 63122
314-781-8405
Niesen, Frank J GS
6500 Chippewa #202
St Louis, MO 63109
314-352-5193
Niesen, Thomas E GS
224 S. Woods Mill #640
Chesterfield, MO 63017
314-993-4743
Nigh, Chas A GS
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Nishi, Toshio PTH
3071 Andover Dr.
St. Louis, MO 63121
Nolan, Chas J R
312 Chateaugay
Chesterfield, MO 63017
Noller, Henry W IM
1311 Medinah Dr. SW
Ft. Myers, FL 33907
Nomura, Roy M PTH
13276 Manchester Rd.
St Louis, MO 63131
314-822-0990
Nordlicht, Scott M IM
4989 Barnes Hosp Plaza #4104
St. Louis, MO 63110
314-367-3734
Norland, Chas C IM
3009 N. Ballas Rd. #100
St Louis, MO 63131
314-432-1111
Norwood, Russell W R
2305 B Hickory
St. Louis, MO 63104
314-362-7111
Nouhan, Jos G Jr. OBG
100 Ladue Meadows Lane
St. Louis, MO 63141
314-432-3723
Nouri, Hassan OBG
12622 Alswell Lane
St Louis, MO 63128
314-842-4000
Novack, Mark A IM
224 S. Woods Mill Rd. #410
Chesterfield, MO 63017
314-878-7220
Nuetzel, John A IM
6420 Clayton Rd.
St. Louis, MO 63117
314-647-7003
Nunez, Maria A PD
2821 Ballas Rd Ste 135
St Louis, MO 63131
314-872-3236
Nwaobasi, Sam GS
11277 Ashcroft Lane
St. Louis, MO 63136
314-355-3487
O'Brien, Edward J Jr. R
6150 Oakland Ave
St Louis, MO 63139
314-645-8510

---

* Doctor of osteopathy.

O'Brien, Robert M ORS
950 Francis Place
St Louis, MO 63105
314-862-2012

O'Connell, Timothy PS
1377 S. Mason Rd.
St Louis, MO 63131
314-991-2151

O'Connor, Robt J FP
11133 Ounn Rd. #114
St. Louis, MO 63136
314-355-2300

O'Oonnell, Francis E OPH
3655 Vista
St. Louis, MO 63110
314-531-4101

O'Keefe, John J IM
P. O. Box 4323
St. Louis, MO 63123
314-821-4124

O'Keefe, Jos O OBG
533 Couch Ave.
St. Louis, MO 63122
314-965-3213

O'Neal, Lawrence W GS
615 South New Ballas Rd.
St Louis, MO 63141
314-569-6440

O'Neal, Patricia L P
4989 Barnes Hosp Plaza 16428
St Louis, MO 63110
314-367-4500

O'Neil, Jerome H Jr. PO
6651 Chippewa #202
St. Louis, MO 63109
314-644-2727

O'Reilly, O. Elliott ORS
1465 S. Grand Blvd. #528
St Louis, MO 63104
314-577-5646

O'Sullivan, Danl F GS
10007 Kennerly Rd
Suite A
St Louis, MO 63128
314-849-2727

Oakley, Margaret M AN
407 Steeple Chase
St Louis, MO 63131
314-965-1567

Oertli, Robert IM
12345 Mentz Hill Rd
St. Louis, MO 63128
314-849-6000

Oetter, Oonald L A
6744 Clayton Rd #220
St Louis, MO 63117
314-434-7445

Oglesby, Richard B OPH
621 S New Ballas Rd #5006
St Louis, MO 63141
314-432-5478

Ohlms, David L P
11745 Olive St. Rd. #205
St Louis, MO 63141
314-567-5011

Ojascastro, Alejandro C FP
9465 Crooked Creek Trail
St Louis, MO 63127
314-773-1585

Okun, Edward OPH
4949 Barnes Hosp Plaza 17413
St Louis, MO 63110
314-367-1181

Olk, R. Joseph OPH
4949 Barnes Hosp Pl
Suite 17413
St. Louis, MO 63110
314-367-1181

Ollinger, Henry G PS
3009 North Ballas Rd.
St Louis, MO 63131
314-872-7800

Omell, Gary H DR
467 Killearn
St Louis, MO 63141
314-361-1212

Ong, Eng L GS
1276 White Rd.
Chesterfield, MO 63017

Ong, Ofelia S OBG
1276 White Rd.
Chesterfield, MO 63017
314-367-0711

Onken, Henry O PS
1034 S. Brentwood #750
St Louis, MO 63117
314-727-8484

Oppenheimer, Henry E IM
911 S. Brentwood Blvd. #101
St. Louis, MO 63105
314-725-9656

Orenstein, Joseph M PUO
417 Jackson Ave
St Louis, MO 63130

Orgel, M. Norman IM
100 N. Euclid Ave. #1000
St Louis, MO 63108
314-367-3900

Orgel, Michael IM
100 N. Euclid Ave.
St Louis, MO 63108
314-367-3900

Orille, Oscar P OR
PSC Box 5000
Tyndall AFB, FL 32403

Orsay, Paul K DR
11155 Ounn Rd Rm 201
St Louis, MO 63136
314-381-6510

Ortbals, Oavid W IM
224 South Woods Mill Rd.
Suite 620
Chesterfield, MO 63017
314-434-8001

Ortiguero, Leopoldo M FP
10577 Windswept Or
St Louis, MO 63128
314-892-2066

Ortillo, Amado P OBG
3009 N. Ballas Rd. #202
St Louis, MO 63131
314-872-8345

Ortmeyer, Leroy F IM
2623 Telegraph Rd.
St Louis, MO 63125
314-487-6910

Ostapowicz, Frank OBG
3 Hillvale Dr.
St Louis, MO 63105
314-768-8780

Ostapowicz, Tamara L OBG
1035 Bellevue Ave. #208
St. Louis, MO 63117
314-644-6262

Ott, F. Thomas OPH
#22 Algonquin Lane
St. Louis, MO 63119
314-863-8866

Ott, Harold J OBG
1034 S. Brentwood Blvd. #910
St Louis, MO 63117
314-721-7900

Ott, Wm J OBG
365 W. Point Ct.
St Louis, MO 63130
314-768-8000

Owen, James W IM
12555 Mason Forest Drive
St. Louis, MO 63141
314-434-3434

Owen, Robt F IM
12 Hacienda Or
St Louis, MO 63124
314-837-3720

Owens, Wm O OS
4989 Barnes Hospital Plaza
St Louis, MO 63110
314-362-6973

Ozmat, Orhan M R
4 Ladue Crest Lane
St Louis, MO 63124

Packman, Paul P
1034 S. Brentwood
Suite 1180
St Louis, MO 63117
314-727-1666

Packman, Robt C IM
4652 Maryland Ave.
St. Louis, MO 63108
314-367-3113

Padilla, Teresita C OBG
224 S. Woods Mill Rd. #430
Chesterfield, MO 63017
314-434-6760

Paez, Mauro A CLP
11636 Administration Dr
St Louis, MO 63141
314-567-3715

Paine, Robt IM
P. O. Box 4738
St. Louis, MO 63108
314-434-8016

Paino, Robert J IM
3915 Watson Rd.
St. Louis, MO 63109
314-644-7100

Palazzo, Frank A NS
6744 Clayton Rd #302
St Louis, MO 63117
314-647-9216

Paletta, Christian E PS
215 W. Cedar Ave.
Webster Groves, MO 63119
314-968-0104

Paletta, Francis X Sr. PS
77 Westport Plaza #260
St Louis, MO 63141

Paletta, Frank IM
1040 N. Mason Rd
St Louis, MO 63141
314-878-9970

Paletta, Theodore L IM
1040 N. Mason Rd
St Louis, MO 63141
314-878-9970

Paletta, Victor L IM
12762 Boenker
Bridgeton, MO 63044
314-291-1170

Palmer, Stephen M O
1035 Bellevue Ave. #509
St. Louis, MO 63117
314-644-0555

Pappalardo, Carlos PS
621 S New Ballas Rd #442
St Louis, MO 63141
314-567-5620

Pardo, Leopoldo P NS
25 Black Oak POBox 8565
St. Louis, MO 63127
314-849-4854

Parikh, Sharad P GS
11637 W Florissant Ave.
Florissant, MO 63033
314-831-4200

Parikh, Smita S R
2300 Leland Ridge Walk
St. Louis, MO 63131
314-831-4200

Paris, Wm H FP
3472 Bridgeland Dr. #a
Bridgeton, MO 63044
314-291-8686

Parker, Thos W IM
7298 Greenway Or
St Louis, MO 63130
314-863-7766

Parker, Wm O
915 Olive St
St Louis, MO 63101
314-241-3221

Parks, Charles GS
456 N. New Ballas Rd. #129
St. Louis, MO 63141
314-569-0130

Parsons, Richard P U
13615 Peacock Farm Rd.
St. Louis, MO 63131
314-434-3433

Partap, Prabha PTH
8 Dunleith
St Louis, MO 63131
314-993-6520

Parwatikar, Sadashiv O P
818 Olive St. #1500
St Louis, MO 63101
314-421-4137

Pasia, Ebello T GS
11115 New Halls Ferry Rd 303
Florissant, MO 63033
314-839-0366

Paskar, Larry O R
14337 Stablestone
Chesterfield, MO 63017
314-878-4680

Passanante, Bartholomew M GS
15 King Lynn
St Louis, MO 63132

Patel, Oilip H IM
10004 Kennerly Rd. #112
St. Louis, MO 63128
314-388-5180

Patel, Jash I OR
13709 Benwirth Ct.
Manchester, MO 63011
314-355-5032

Patrick, Roman L PTH
13109 Fourposter Ct.
St. Louis, MO 63146
314-567-3905

Payne, Meredith C PS
1034 So Brentwood Blvd.
Suite 778
St Louis, MO 63117
314-727-1337

Pearlman, Alan L N
517 S Euclid Ave
St Louis, MO 63110
314-362-7172

Pearse, Carlton S OBG
224 S. Woods Mill Rd. #680
Chesterfield, MO 63017
314-367-0399

Pearson, William E OBG
12166 Big Bend #100
St. Louis, MO 63122
314-821-3500

Peden, Burnet W IM
35 N Central Ave #245
St. Louis, MO 63105
314-721-7210

Peden, James C Jr. IM
621 S. New Ballas Rd. #343
St. Louis, MO 63141
314-567-3120

Peden, Jos C Jr. GS
224 S. Woods Mill Rd. #340
Chesterfield, MO 63017
314-878-2170

---

* Ooctor of osteopathy.

Peden, Virginia H
1465 South Grand
St. Louis, MO 63104
314-577-5651
Peebles, Jonathan B US
RR #1
Buchanan, TN 38222
Pelican, George IM
621 S. New Ballas Rd. #674
St. Louis, MO 63141
314-569-2102
Penilla, Antonio R IM
12255 DePaul Dr.
Bridgeton, MO 63044
314-739-1060
Pennell, Richard C GS
621 S. New Ballas #521
St. Louis, MO 63141
Pennington, D. Glenn GS
1325 S. Grand Ave.
St. Louis, MO 63104
314-771-7600
Pennington, F. Eugene GS
4160 Glidden Dr
Sturgeon Bay, WI 54235
Pennoyer, James OBG
117 Plant
St Louis, MO 63119
314-367-7100
Pentella, Karen J N
11155 Dunn Rd. #202N
St. Louis, MO 63136
314-355-3355
Pepper, Edward G R
6150 Oakland Ave
St Louis, MO 63139
314-648-8510
Pepper, Max P P
1320 S. Grand Blvd.
St Louis, MO 63104
314-664-9800
Perez, Adamor R GS
4415 Vermillon Dr
St Louis, MO 63128
314-789-3313
Perez, Blanca M PTH
10010 Kennerly
St Louis, MO 63108
314-991-1078
Perez, Carlos A R
4511 Forest Park #411
St Louis, MO 63108
314-362-3499
Perez, Jeannie O PD
12255 De Paul Dr.
Bridgeton, MO 63044
314-739-2207
Perez, Robert J IM
533 Couch Avenue #281
St. Louis, MO 63122
314-966-0500
Perez, Romeo J OBG
3009 N Ballas Rd.
St. Louis, MO 63131
314-872-3743
Perinetti, Enrique P U
11155 Dunn Rd. #109N
St. Louis, MO 63136
Perkins, David E DR
1034 S Brentwood #280
St Louis, MO 63117
314-727-0012
Pernoud, Flavius G Jr. OPH
1027 Bellevue #201
St Louis, MO 63117
314-644-6666
Pernoud, Flavius G III OPH
#15 Huntleigh Manor
St Louis, MO 63131
314-644-6666
Pernoud, Joan M OPH
15 Huntleigh Manor
St Louis, MO 63131
314-353-0016
Pernoud, Michael F OPH
1027 Bellevue #201
St Louis, MO 63117
314-644-6666
Perry, Dorothy S AN
52 Huntleigh Woods
St. Louis, MO 63131
314-355-2300
Perry, H. Mitchell Jr. IM
VA Medical Center
111 D JC
St Louis, MO 63125
Perry, Wm D IM
1034 S Brentwood Blvd
St Louis, MO 63117
314-721-0666
Peterson, Frederick D PD
8025 Dale Ave
St Louis, MO 63117
314-644-2566
Peterson, Gary J GS
1325 S. Grand
St Louis, MO 63104
314-771-7600

Petkovich, Frank O ORS
12131 Royalwood
St. Louis, MO 63141
314-291-5450
Petruska, Paul J IM
367 Conway Lake Dr.
St Louis, MO 63141
314-771-7600
Philip, Varkey E EM
525 Couch Ave
St. Louis, MO 63122
314-966-1528
Phillips, Abraham M PD
777 S New Ballas Rd
St Louis, MO 63141
314-567-9180
Phillips, Daniel N
3009 N. Ballas Rd. #209
St. Louis, MO 63131
314-567-3663
Phillips, John J ORS
12255 DePaul Dr. #250
Bridgeton, MO 63044
314-739-7654
Phillips, Wm J IM
224 S. Woods Mill Rd. #310
Chesterfield, MO 63017
314-576-6700
Philpott, Gordon W GS
216 South Kingshighway
St Louis, MO 63110
314-454-7170
Phipatanakul, Chintana S IM
1125 Graham Rd
Florissant, MO 63031
314-838-5700
Phipatanakul, Supote OTO
135 W Adams #304
St Louis, MO 63122
314-966-6656
Piccione, Leonard N FP
12244 DePaul #325
Bridgeton, MO 63044
314-291-7223
Picker, Selwyn NS
660 S. Euclid Box 8057
St. Louis, MO 63110
314-362-3566
Pierron, Robert L ORS
12615 Old Tesson Ferry Rd.
St. Louis, MO 63128
816-229-4229
Pimentel, Esperanza M FP
2323 Chambers
St Louis, MO 63136
314-867-2736
Pimentel, Mauricio F FP
1731 Redman Ave.
St Louis, MO 63138
314-867-2736
Pineda, Hector O IM
4460 Chippewa
St Louis, MO 63116
314-481-8028
Piontek, Jerome G ORS
224 S. Woods Mill #770
Chesterfield, MO 63017
314-434-6785
Piper, August T IM
4903 Martin Luther King
St Louis, MO 63113
314-367-2350
Pisoni, Steven P IM
3915 Watson Rd.
St. Louis, MO 63109
Pitsinger, N. Bruce GS
232 S. Woods Mill Rd.
Chesterfield, MO 63017
314-878-0848
Pittman, Gerald R PTH
2021 Meadowtree Lane
St Louis, MO 63122
314-997-5888
Pittman, Susan PD
621 S. New Ballas Rd #4006B
St Louis, MO 63141
314-567-0016
Plax, Steven I PD
8025 Dale
St Louis, MO 63117
314-644-2566
Poger, Marshall E CLP
40 Hill N Dale
St. Louis, MO 63132
314-997-4968
Pohl, David L DR
1325 S. Grand Blvd.
St. Louis, MO 63104
314-577-8025
Polukoff, Gerald I IM
701 S. Skinker Blvd. #504
St. Louis, MO 63105
314-721-6275
Pon, Marcelino FP
10727 Roxanna
St. Louis, MO 63128
314-677-5711

Ponnuru, Bhaskara M AN
13100 Thornhill Dr.
St. Louis, MO 63131
Popp, Dennis A IM
7288 Westmoreland Dr.
St. Louis, MO 63130
314-725-9656
Porporis, Arthur A R
824 Renderer Dr
St Louis, MO 63122
314-361-7373
Portnoff, Lee S D
3009 N. Ballas Rd. Suite 226
St. Louis, MO 63131
314-993-2909
Portuondo, Bonaventure C PTH
3532 Flora Court
St Louis, MO 63104
Post, Stephen L P
4524 Forest Park #201
St Louis, MO 63108
314-361-8333
Potashnick, Robt IM
12255 DePaul Dr.
Suite 865
Bridgeton, MO 63044
314-291-7730
Potter, Reese H P
10 Wilshire Terr
St. Louis, MO 63119
314-961-4686
Potts, Dan E IM
224 S. Woods Mill Rd. #310
Chesterfield, MO 63017
314-576-6700
Powell, Charles B ORS
1125 Graham Rd
Florissant, MO 63031
314-838-5700
Powell, John A D
1034 S. Brentwood Blvd. #960
St Louis, MO 63117
314-863-7080
Prelutsky, David J IM
3508 Victor
St. Louis, MO 63104
314-776-3592
Prensky, Arthur L CHN
400 S. Kingshighway
St Louis, MO 63110
314-454-6084
Presnell, Cleitus A OTO
16751 Pheasant Ct. S.W.
Fort Myers, FL 33908
Probst, Raymond E OBG
10345 Higway 66
St Louis, MO 63127
314-965-6033
Probstein, Jacob G GS
4943 Lindell Blvd
St Louis, MO 63108
314-367-3822
Prophete, Beaumanoir U
100 N. Euclid #906
St Louis, MO 63108
314-361-3777
Proskey, Vincent J IM
522 N New Ballas Rd #349
St Louis, MO 63141
314-567-3113
Pruett, Burchard S OS
10321 Richview Dr
St Louis, MO 63127
Pruett, Don S GS
35 N. Central #235
St Louis, MO 63105
314-726-5225
Prusaczyk, Jos V PD
13035 Olive St.
St Louis, MO 63141
966-152-0000
Purcell, Harry K GS
911 S Brentwood Blvd #226
St Louis, MO 63105
314-725-4747
Purcell, John J Jr. OPH
6400 Clayton Rd #416
St Louis, MO 63117
314-647-2277
Puro, Edward A IM
11115 New Halls Ferry Rd
Florissant, MO 63033
314-838-0222
Qazi, Nasreen PTH
10010 Kennerly Rd.
St. Louis, MO 63128
314-842-5600
Quadir, Humayum IM
10004 Kennerly Rd
St Louis, MO 63128
314-843-3449
Quick, Richard T P
777 S. New Ballas Rd. #333W
St Louis, MO 63141
314-567-5185
Qureshi, Abdul R IM
10004 Kennerly Road
St Louis, MO 63128
314-843-3110

---

* Doctor of osteopathy.

Racadio, Severo M FP
P. O. Box 1
Arnold, MO 63010
314-296-5522
Rachlin, Maxwell OPH
42 Riovista Drive
St Louis, MO 63124
Rader, Edward S U
7744 Davis Dr.
St. Louis, MO 63105
314-727-7717
*Radinsky, Stephen DR
12267 Winrock Dr.
St. Louis, MO 63141
314-434-5936
Radke, John D CD
219 Cuiseaux Ct.
St Louis, MO 63141
Rahman, Moududur OPH
911 S Brentwood #102
St Louis, MO 63105
314-725-7373
Raichle, Marcus E N
710 Jamaica Ct
St Louis, MO 63122
314-362-2950
Railey, Michael T FP
Northland Office Bldg. #222
St. Louis, MO 63136
314-727-9275
Rainey, Robt GS
9385 Page Blvd.
St Louis, MO 63114
314-428-8100
Ramirez, Jose A IM
933 Concordia Lane
St. Louis, MO 63105
314-863-0938
Ramirez, Samuel G IM
7449 W. Florissant
St Louis, MO 63136
314-385-9111
Ramirez-Inawat, Rebecca C AN
415 Country Oak Dr.
Chesterfield, MO 63017
314-469-0120
Ramsey, Robt H IM
11115 New Halls Ferry Rd
Florissant, MO 63033
314-921-2060
Randolph, Bernard C FP
3737 N Kingshighway #201
St Louis, MO 63115
314-383-1746
Rankin, Diane CHP
4521 Pershing St
St Louis, MO 63108
314-367-4234
Rao, Aswath N ORS
6500 Chippewa St #111
St Louis, MO 63109
314-351-1610
Rao, Carlo GS
11639 W. Florissant
Florissant, MO 63033
314-921-6200
Rao, Sumati PTH
1111 Tamaron Lane
St. Louis, MO 63131
314-771-7600
Rappold, Henry O OBG
500 Northwest Plaza #500
St Ann, MO 63074
314-291-0040
Ratkin, Gary A HEM
4910 Forest Park #202
St Louis, MO 63108
314-361-7786
Reardon, Thos F IM
300 S. Grand
St Louis, MO 63103
314-658-5049
Reddy, M V N
12573 Durbin Dr.
St Louis, MO 63141
314-644-8802
Redington, James C Jr. IM
1 Tuscany Park
St Louis, MO 63105
314-727-5336
Rednam, Krishnarao V OPH
224 S. Woods Mill Rd.,
Suite 400
Chesterfield, MO 63017
314-821-0500
Reed, Jonathan R OBG
100 N. Euclid Ave
St Louis, MO 63108
314-367-2200
Reed, Leslie G FP
10524 Seaton Place
St Louis, MO 63137
314-867-9935
Reese, A. Victor IM
9645 Big Bend Blvd.
St. Louis, MO 63122
314-962-2218
Reese, Lester T D
522 N New Ballas Rd
St Louis, MO 63141
Reeves, Lt. Col. Glen I TR
USAF Hospital 1 SGP
Beale AFB, CA 95903
Reh, Edward P Jr. IM
533 Couch
St. Louis, MO 63122
314-965-5868
Reh, Thos E R
6420 Clayton Rd
St Louis, MO 63117
314-768-8250
Reichert, M. Cecelia IM
16 Hampton Village Plaza
St Louis, MO 63109
314-752-8349
Reichert, Timothy J OTO
777 S. New Ballas Rd.
St. Louis, MO 63141
314-872-8338
Reineke, Fred W PTH
8201 West Broward Blvd
Plantation, FL 33324
Reinhard, Edward H IM
235 Sylvesteo Ave.
St. Louis, MO 63119
Reisler, David M N
224 So Woods Mill Rd.
Suite 550
Chesterfield, MO 63017
314-434-3414
Reiter, Federico B DR
11155 Dunn Rd
St Louis, MO 63136
314-355-6565
Rejent, Anthony J PD
10004 Kennerly Rd.
Suite 195B
St Louis, MO 63128
314-849-5010
Rende, Richard J ORS
12633 Bradford Woods Dr.
St. Louis, MO 63127
314-961-1598
Rendleman, Geo F Jr. GS
818 Olive St #1023
St Louis, MO 63101
314-241-9261
Rennard, Marvin OBG
2821 N Ballas Rd Ste 25
St Louis, MO 63131
314-872-9206
Repp, Theodore J Jr. FP
81 Bellerive Acres
St. Louis, MO 63121
314-355-5300
Reuter, Louis A OM
2 Spoede Acres
St Louis, MO 63141
Revels, Harry III OPH
317 Medinah Lane
Lompod, CA 93436
Reyes, Jose T AN
455 Steeplechase Lane
St Louis, MO 63131
314-525-1000
Reyes, Luis A GS
9814 Mar-ann Ct
St Louis, MO 63128
314-296-1861
Reyes, Rosendo A OBG
10157 Hausfel Ct.
St. Louis, MO 63128
314-842-6833
Reynolds, James A IM
224 S. Woods Mill Rd. #410
Chesterfield, MO 63017
314-878-7220
Reynolds, Robert B Sr. P
14377 Woodlake Dr.
Chesterfield, MO 63017
314-432-2298
Reynolds, Susan K FP
1000 Gravois Suite 70G
Grasso Plaza
St. Louis, MO 63123
314-638-0789
Rhee, Dong S AN
P. O. Box 24507
St Louis, MO 63141
314-872-8221
Rhee, Seoung E FP
3551 Evergreen Lane
St Louis, MO 63125
314-892-6789
Ribaudo, J. Michael PS
11709 Old Ballas Rd.
St. Louis, MO 63141
Rich, Keith M NS
660 S. Euclid Box 8057
St. Louis, MO 63110
314-362-3566
Rich, Margaret M ORS
4949 Barnes Hospital Plaza
St. Louis, MO 63110
314-362-4080
Richards, Frank O GS
3737 N Kingshighway #206
St Louis, MO 63115
314-383-0133
Richardson, Thos F P
4949 Barnes Hosp Plaza 16415
St Louis, MO 63110
314-362-3901
Richmond, Michael R IM
11155 Dunn Rd #205
St. Louis, MO 63136
314-434-0770
Ridgeway, Wm G OPH
6651 Chippewa #224
St Louis, MO 63109
314-645-4940
Ries, Douglas A GS
1511 Hampton Hall Dr. #12
Chesterfield, MO 63017
Rifkin, Shale GS
141 N. Meramec Ave.
St. Louis, MO 63105
314-863-8885
Riggio, Salvatore N PD
10349 Watson Rd
St Louis, MO 63127
314-821-0349
Riley, John J IM
12255 DePaul Dr
Suite 345
Bridgeton, MO 63044
314-739-4166
Riner, Ronald N IM
1034 S. Brentwood #854
St. Louis, MO 63117
314-727-9900
Ring, Edward M TS
621 S. New Ballas Suite 262
St Louis, MO 63141
314-567-4111
Ring, Lisa B D
12255 DePaul Dr.
Bridgeton, MO 63044
314-344-0004
Ritter, Hubert A OBG
1035 Bellevue #208
St. Louis, MO 63117
314-644-6262
Ritterbusch, James K Jr. ORS
206 Commodore
Hampton, VA 23669
314-781-4304
Rizzo, Adolfo E CHP
555 N. New Ballas Rd.
Suite 100
St Louis, MO 63141
314-991-2466
Robben, G. Garry IM
10822 Sunset Plz.
St. Louis, MO 63127
314-872-3380
Robbins, Philip L CRS
621 S New Ballas Rd #611
St Louis, MO 63141
314-567-9930
Roberts, Harold K IM
35 N. Central Ave.
St. Louis, MO 63105
Roberts, John P IM
7019 Northmoor
St. Louis, MO 63105
314-862-4990
Robertson, Frank G OBG
456 N. New Ballas
St. Louis, MO 63141
Robinson, Edith C CHP
2 Briar Oak
St Louis, MO 63132
Roblee, Melvin A OBG
1600 Westbrook Apt 228
Richmond, VA 23227
Roden, Vernon J PD
456 N New Ballas Rd #304
St Louis, MO 63141
314-567-6868
Rodrigo, Bernardo R AN
12537 Royal Manor
St Louis, MO 63141
314-644-3000
Rodriguez, Ubaldo R GS
4121 Union Rd. #216
St Louis, MO 63129
314-892-3502
Rogers, H. Bryan FP
300 Sylvester Ave.
St Louis, MO 63119
314-621-4300
Rohrbaugh, James R CHN
777 S New Ballas Rd.
Suite 208 W
St. Louis, MO 63141
314-991-1018
Rollo, John L PTH
11133 Dunn Rd.
St. Louis, MO 63136
314-355-2300
Romeo, Sam J.W. FP
1402 S. Grand Blvd.
St. Louis, MO 63104
314-577-8212

---

* Doctor of osteopathy

Roper, Chas L CDS
4989 Barnes Hosp Plaza
St Louis, MO 63110
314-361-0122
Rosenbaum, Harry D OPH
522 N New Ballas Rd #364
St Louis, MO 63141
314-569-1557
Rosenbaum, Herbert E N
456 N New Ballas #290
St Louis, MO 63141
314-567-3970
Rosenberg, Dale H PS
6401 West Main St. #2D
Belleville, IL 62223
618-398-5600
Rosenberg, David S IM
100 N Euclid Ave.
Suite 1104
St Louis, MO 63108
314-367-8811
Rosenblum, Barry N OTO
1325 S. Grand Blvd.
St. Louis, MO 63104
314-773-5750
Rosenthal, Randall P
2222 Schuetz Rd
Suite 212
St Louis, MO 63146
314-997-1722
Ross, Wm J PD
119 Church St #227
St Louis, MO 63135
314-521-1600

Roth, John J IM
Town & Country Med. Bldg.
2821 N. Ballas Rd.
St. Louis, MO 63131
314-872-7332
Roth, William PTH
10384 Beau Jordin Dr.
St. Louis, MO 63146
314-432-3950
Rothweiler, Robt J OTO
11745 Olive St Rd
St Louis, MO 63141
314-567-3618
Rotskoff, Kenneth S OS
1031 Bellevue Ave. #310
St Louis, MO 63117
314-863-8050
Roulhac, Geo E NS
P. O. Box 386
Sea Island, GA 31561
Rouse, Ernest T IM
1034 S Brentwood Blvd
St Louis, MO 63117
314-721-0666
Rouse, Ernest T III IM
1034 S Brentwood
St Louis, MO 63117
314-721-0666
Roush, Geo OM
800 N Lindbergh
St Louis, MO 63167
314-694-8800
Roush, Randall D ORS
12255 DePaul Dr.
Bridgeton, MO 63044
314-739-7654
*Routsong, Rodney T NS
77 Westport Plaza Suite 355
St. Louis, MO 63146
314-469-3315
Roy, Jos A GS
12255 DePaul Dr. #730
Bridgeton, MO 63044
314-738-7773
Roy, Tapankumar S TR
Dept of Radiation Onc
1325 S. Grand Blvd.
St. Louis, MO 63104
314-773-1974
Royce, Robt K U
4989 Barnes Hosp Plaza #6104
St Louis, MO 63110
314-367-1820
Rubenstein, Melvin P
818 Hanamoor Court
St Louis, MO 63122
314-965-7785

Ruehl, Albert F PS
5403 Vicar Ct.
St Louis, MO 63119

Ruhling, Rudy GP
5203 Chippewa
St Louis, MO 63109
314-481-1562

Rumelt, Michael OPH
777 S New Ballas #231E
St. Louis, MO 63141
314-432-2156

Putherford, James L P
4323 Laclede Ave. #A
St. Louis, MO 63108
314-362-7881

Ruwitch, Joseph F Jr. IM
4989 Barnes Hosp Plaza 16413
St Louis, MO 63110
314-362-7275
Ryall, Jo-Ellyn M P
9216 Clayton Rd. Suite 105
St. Louis, MO 63124
314-868-7700
Ryan, Robt E Sr. OTO
2323 Manor Grove Dr. Suite 6
Chesterfield, MO 63017
Sabet, Abdollah A P
901 Clayton Rd.
Ballwin, MO 63011
314-227-7300
Sachar, Jerome D OBG
2821 N. Ballas Rd.
St. Louis, MO 63131
314-872-9206
Sachar, Leo A GS
230 S. Brentwood Blvd.
St Louis, MO 63105
314-361-3676
Safi, Malaz OPH
1844 Harbor Mill Dr.
Fenton, MO 63026
314-622-5000
Saghir, Marcel T P
1034 S Brentwood Blvd
St Louis, MO 63117
314-862-4448
Saha, Nitai C U
2325 Todforth
St. Louis, MO 63131
314-822-1414
Saha, Sudha R OBG
1040 N Mason Rd.
St. Louis, MO 63141
314-434-6020
Saitz, Robert M IM
4121 Union Rd.
St. Louis, MO 63129
314-894-3053
Sakmar, Douglas A PD
10004 Kennerly Rd #195B
St. Louis, MO 63128
314-849-5010
Salanga, Percival B FP
10542 Windswept Dr.
St. Louis, MO 63128
314-892-3501
Sale, Llewellyn Jr. IM
4910 Forest Park #312
St Louis, MO 63108
314-367-2757
Sale, Scott R IM
450 N. New Ballas Rd. #201
St. Louis, MO 63141
314-872-8740
Salinas, Mario OBG
10004 Kennerly Rd.
St Louis, MO 63128
314-849-3500
Salmon, M. L. OPH
2900 Lemay Ferry Rd
St. Louis, MO 63125
314-892-8211
Salvador, Antonio PTH
Lamp & Lantern #257
Chesterfield, MO 63017
314-569-6120

Samet, John M IM
911 S. Brentwood Blvd. #208
St. Louis, MO 63105
314-727-2575

Sammons, Harry C AN
Rt. 1 Box 188A
Hermann, MO 65041
314-822-1271

Samson, Barry L ORS
522 N New Ballas Rd. #199
St. Louis, MO 63141
314-432-2323

Samudrala, Ramulu OPH
12135 Royal Valley
St. Louis, MO 63141
314-381-2626

Samuels, Lawrence E D
224 S. Woods Mill Road
Suite 320
Chesterfield, MO 63017
314-576-7336

Sanchez, Abelardo B N
4783 Wickerwood Dr
St Louis, MO 63129
314-771-8231

Sanders, Theodore E OPH
625 South Skinker
St Louis, MO 63105

Sandza, Joseph G Jr. TS
3015 N. Ballas Rd.
St Louis, MO 63131
314-432-1212

Sankaran, Dharmasumvardhi PM
12881 Glenbernie Lane
St. Louis, MO 63146
314-631-7800

Santanello, William M FP
2425 N Broadway
St Louis, MO 63102
314-241-4455
Santillano, Antonio B PTH
6150 Oakland Ave.
St Louis, MO 63139
314-645-8510
Santos-Pardo, Lourdes A PD
801 S. Brentwood Blvd
St Louis, MO 63105
314-726-1100
Sasser, Wm F TS
621 S New Ballas Rd #542
St Louis, MO 63141
314-567-1841
Sata, Lindbergh S P
1221 S. Grand
St. Louis, MO 63104
314-771-7600
Sato, Geo PD
777 S. New Ballas Rd. 114E
St Louis, MO 63141
314-432-3338
Sato, Richard W PD
777 So. New Ballas Rd.#114E
St. Louis, MO 63141
314-432-3338
Sauer, Donald C GS
4910 Forest Park
St Louis, MO 63108
314-727-4576
Sauvage, Jacques P OBG
4911 Barnes Hosp Plaza
St Louis, MO 63110
314-362-3169
Savci, Hasan D. R
11712 Westham
St Louis, MO 63131
314-878-4680
Sawyer, James OBG
2520 N. Geyer Rd.
St. Louis, MO 63131
Schaefer, Glennon S GS
621 S. New Ballas Rd.
St Louis, MO 63141
314-872-3188
Schaerer, Jacques P NS
777 S New Ballas Rd
St Louis, MO 63141
314-567-5078
Schaper, Ernest H FP
7200 Manchester Ave
St Louis, MO 63141
314-645-7744
Schechter, Saml E IM
8000 Bonhomme St #106
St. Louis, MO 63105
314-725-8220
Scheele, Paul M IM
5479 Kenrick Park Drive So.
St. Louis, MO 63119
314-965-7201
Scheer, George E ORS
1034 So Brentwood #650
St Louis, MO 63105
314-721-7325
Scheibe, Robt G U
12575 Bickford
St Louis, MO 63141
314-567-3235
Scheible, Robert F DR
3009 N. Ballas Ste.131
St Louis, MO 63131
314-432-5284
Schengber, John S P
777 S. New Ballas Rd. #333W
St Louis, MO 63141
314-567-5185
Scheu, James H PS
7305 Manchester Ave. #1000
St. Louis, MO 63143
314-441-7220
Schierman, Wm D IM
911 S Brentwood Blvd #208
St. Louis, MO 63105
314-862-4141
Schlafly, Bruce S ORS
10004 Kennerly Rd.
St. Louis, MO 63128
502-897-6101
Schlafly, Edward F JR. ORS
224 South Woods Mill Rd #330
Chesterfield, MO 63017
314-576-7013
Schlansky, Seymour M PD
1600 Heritage Lndg Dr. #207
St. Charles, MO 63303
314-432-6544
Schmidt, Dennis A R
6150 Oakland
St Louis, MO 63139
314-645-8510
Schmidt, Edwin H P
10240 Schuessler Rd.
St Louis, MO 63128
Schmidt, Edwin H III IM
1035 Bellevue Ave
St Louis, MO 63117
314-645-3400

---

* Doctor of osteopathy.

Schneider, Paul G IM
6400 Clayton Rd. #201
St. Louis, MO 63117
314-781-8405

Schneider, Robert J IM
522 N. New Ballas Rd. #149
St. Louis, MO 63141
314-567-1902

Schneider, Sally L AN
621 S. New Ballas Rd. #662
St. Louis, MO 63141
314-872-8221

Schnidman, Jacquelyn C PD
4217 Bayless
St. Louis, MO 63123
314-638-7330

Schoch, Lawrence H OPH
4949 Barnes Hosp
Suite 17413
St. Louis, MO 63110
314-367-1181

Schoeck, Albert F AN
14013 Baywood Village Dr.
Chesterfield, MO 63017
314-576-1459

Schoedinger, George R III ORS
12615 Old Tesson Road
St Louis, MO 63128
314-849-0311

Schoenecker, Perry L ORS
4960 Audubon Ave.
St Louis, MO 63110
314-362-6548

Schoentag, John S D
456 N New Ballas Rd
Suite #317
Creve Coeur, MO 63141
314-567-3180

Schonfeld, Gustav IM
4566 Scott Ave. Box 8113
St Louis, MO 63110
314-362-7038

Schopp, Alvin C ORS
12345 Gaillard Dr.
St Louis, MO 63141

Schranck, Chas R Sr. AN
28 Berkshire
St Louis, MO 63117
314-644-3000

Schreiber, David J N
11155 Dunn Rd
St Louis, MO 63136
314-355-3355

Schrick, Richard E OTO
135 W. Adams
Kirkwood, MO 63122
314-966-5252

Schuessler, Edward C AN
918 Town and Country Est Ct.
St. Louis, MO 63141
314-965-0919

Schuessler, Wolfgang P IM
6744 Clayton Rd
St Louis, MO 63117
314-644-1901

Schulman, Jeffrey I PDA
522 N New Ballas Rd.
Suite 122
St Louis, MO 63141
314-569-1881

Schultz, Earl R N
3009 North Ballas Rd.
Suite 209
St Louis, MO 63131
314-567-3663

Schultz, Irwin IM
26 Arundel Pl
St Louis, MO 63105
314-355-5300

Schulz, Richard R
6150 Oakland
St Louis, MO 63139
314-645-9003

Schwartz, Henry G NS
4901 Barnes Hospital Plaza
St Louis, MO 63110
314-362-3375

Schwartz, Melvin M OBG
2821 N Ballas #255
St Louis, MO 63131
314-872-9206

Schwarz, Luis H P
1035 Bellevue Ave
St Louis, MO 63117
314-647-0610

Schwarze, Martin W IM
2200 West Port Plaza Dr.
Suite 212
St. Louis, MO 63146
314-576-6707

Schweiss, John F AN
1325 S. Grand
St Louis, MO 63104
314-771-7600

Schweitzer, James M IM
3009 New Ballas #100
St. Louis, MO 63131
314-432-1111

Sciortino, John S GS
10 Salem Estates
St Louis, MO 63124

Scott, Elwin P GP
3325 S Grand
St Louis, MO 63118
314-771-0064

Scott, Hillard L FP
3654 Oakmount
St. Louis, MO 63121
314-382-6899

Scott, Horace W R
100 N. Euclid #100
St. Louis, MO 63108
314-727-0012

Scully, Thomas F U
911 S. Brentwood #228
St. Louis, MO 63105
314-725-6551

Sedgwick, William G ORS
1034 S. Brentwood
St. Louis, MO 63117
314-721-7325

Seed, John P
6400 Clayton Road
Suite 412
St Louis, MO 63117
314-647-9100

Seeley, James J GS
10004 Kennerly Rd.
Suite 355
St Louis, MO 63128
314-849-3050

Seib, Geo A FP
2323 Lafayette Ave
St Louis, MO 63104
314-776-2323

Selhorst, John B P
3660 Vista #304
St. Louis, MO 63110
314-577-6082

Senturia, Hyman R R
216 S. Kingshighway
St Louis, MO 63108
314-441-6730

Sertl, George O ORS
3009 N. Ballas Road #105
St Louis, MO 63131
314-569-0612

Sertl, James F IM
950 Francis Pl
St Louis, MO 63105
314-863-7766

Sertl, John D FP
5203 Chippewa
Suite 307
St Louis, MO 63109
314-481-5591

Sessions, Donald G OTO
4911 Barnes Hosp Plaza
St. Louis, MO 63110
314-362-7509

Sexton, Danl L IM
14 Crestwood Dr.
St. Louis, MO 63105
314-862-5252

Shah, Anwar OPH
1031 Bellevue Ave
St Louis, MO 63117
314-644-6800

Shah, Bharat K GS
221 Brooktrail Ct.
St. Louis, MO 63105
618-874-3551

Shah, Jitendra P U
10004 Kennerly Rd
St Louis, MO 63128
314-849-2735

Shah, Modaser P
5400 Arsenal
St. Louis, MO 63139
314-644-8000

Shahan, Philip T OPH
211 N Meramec
St Louis, MO 63105
314-726-0053

Shaikun, Gerald L R
14025 Crosstrails
Chesterfield, MO 63017
314-441-6730

Shanahan, Philip J GP
1 Chilton Ln
St. Louis, MO 63141
314-567-5407

Shaner, Thos P OBG
2821 North Ballas #C65
St Louis, MO 63131
314-872-7400

Shank, Robt E IM
1325 Wilton Lane
St Louis, MO 63122
314-362-7465

Shapiro, Herbert N GS
6651 Chippewa St #312
St Louis, MO 63109
314-781-4311

Shapleigh, John B II IM
222 S. Woods Mill Rd. #580
Chesterfield, MO 63017
314-862-3730

Sharp, Austin R PD
901 Clayton Rd
Ballwin, MO 63011
314-391-6300

Shatz, Burton A IM
10287 Clayton Rd
St Louis, MO 63124
314-997-3212

Shatz, Gerald S A
224 S. Woods Mill Rd.
Suite 270
Chesterfield, MO 63017
314-434-7174

Shatz, Richard N PS
4 Pricemont Dr.
St. Louis, MO 63132
314-569-3214

Shaw, Edward J GS
Barnes Sutter Health Care
819 Locust St.
St Louis, MO 63101
314-621-4300

Shaw, Richard C TS
11155 Dunn Rd. Suite 212E
St Louis, MO 63136
314-355-4571

Sheehan, Paul J GS
12255 DePaul
Bridgeton, MO 63044
314-771-7600

Sheffner, Paul W P
763 S. New Ballas Rd. #350
St. Louis, MO 63141
314-427-2424

Shehadi, Sameer I PS
1325 South Grand Blvd.
St. Louis, MO 63104
314-577-8793

Shelton, Earl W IM
4451 Natural Bridge Ave
St Louis, MO 63115
314-385-8752

Shen, Anthony S IM
3015 N. Ballas Rd.
St. Louis, MO 63131
314-569-5121

Shen, Hang C R
14907 Greenleaf Valley Dr.
Chesterfield, MO 63017
314-727-6300

Shen, Jerome T PD
7132 Kingsbury Blvd.
St Louis, MO 63130
314-962-8122

Shen, Vincent S IM
3612 Pt. Elizabeth
Chesapeake, VA 23321

Sheridan, John J ORS
6400 Clayton Rd. #302
St Louis, MO 63117
314-647-8562

Sherman, Laurence A PTH
4050 Lindell Blvd.
St. Louis, MO 63108
314-658-2103

Sherman, W. Gary PD
13131 Tesson Ferry Rd. #105
St Louis, MO 63128
314-849-3320

*Sherrod, Glenn M N
12255 DePaul Dr.
Suite 770
Bridgeton, MO 63044
314-291-2446

Sherwin, Charles S GS
911 S. Brentwood #226
St Louis, MO 63105
314-725-4747

Shieber, Wm GS
P. O. Box 14109
St Louis, MO 63178
314-454-7181

Shields, John B R
33 Flower Hill Ct.
St Louis, MO 63122
314-771-7600

Shine, Thomas E GS
11155 Dunn Rd. Suite 303
St. Louis, MO 63136
314-741-3400

Shitut, Ravindra V ORS
12615 Old Tesson Rd.
St. Louis, MO 63128
314-849-0311

Shively, Raymond E PS
10004 Kennerly Ste 374B
St. Louis, MO 63128
314-849-5151

Shively, Robert A ORS
4989 Barnes Hosp Plaza 11300
St. Louis, MO 63110
314-362-6549

---

* Doctor of osteopathy

Shockley, Karen D GP
1905 Hickory St.
St. Louis, MO 63104
314-773-5962

Shopper, Moisy P
4524 Forest PK
St. Louis, MO 63108
314-361-4646

Shore, Bernard L IM
4652 Maryland
St. Louis, 63108
314-367-3113

Short, Charles D PTH
3015 N. Ballas Rd.
St. Louis, MO 63131
314-569-5207

Shroff, Kumkum OBG
533 Couch Ave.
St. Louis, MO 63122
314-965-2215

Shuff, Paul D OTO
1035 Bellvue Ste 417
St Louis, MO 63117
314-781-6212

Shuman, Jos S P
12255 DePaul Dr.
Bridgeton, MO 63044
314-739-5557

Shyken, Herman R
141 N Meramec
Clayton, MO 63105
314-721-0242

Sicard, Gregorio A GS
4960 Audubon Ave.
St. Louis, MO 63110
314-362-7400

Siddiqui, Farzanna Q P
10404 Frontenac Woods
St. Louis, MO 63131
618-876-3600

Siddiqui, Jawed H IM
11115 New Halls Ferry #301
Florissant, MO 63033
314-829-2770

Siegel, Barry A NM
510 S. Kingshighway Blvd.
St. Louis, MO 63110
314-362-2809

Siegfried, Barry A CLP
12212 Foxpoint Drive
Maryland Hghts, MO 63043
314-878-4333

Siemers, Geo E OBG
12660 Lamplighter Sq.#A
St Louis, MO 63128
314-843-1900

Siesener, Herbert H IM
206 Northland Office Bldg.
St Louis, MO 63136
314-383-0400

Sigmund, Chas A OPH
12255 DePaul Rd Ste. 645
Bridgeton, MO 63044
314-739-9293

Sigmund, Chas J IM
3535 S. Jefferson #109
St. Louis, MO 63118
314-391-9120

Silber, Sherman J U
224 South Woods Mill Rd.
Suite 730
Chesterfield, MO 63017
314-576-1400

Silver, Bernd OPH
950 Francis Place #317
St Louis, MO 63105
314-727-5510

Silverberg, Chas IM
505 Coeur De Royale #304
St Louis, MO 63141
314-843-7333

Silvermintz, Saul D IM
456 N. New Ballas Rd. #242
St Louis, MO 63141
314-567-4990

Simon, David L PD
9705 Watson Rd. #204
St Louis, MO 63126
314-726-5477

Simon, Nathan M P
32 Crestwood
St Louis, MO 63105
314-361-7817

Simons, Paul S PD
4570 Audubon
St Louis, MO 63110
314-658-5243

Simpson, Joseph R
4939 Audubon #5500
St. Louis, MO 63110
314-362-3470

Simril, Wayne A DR
21 Somerset Downs
St Louis, MO 63124

Sims, Wm A Jr. AN
6 Greenbriar Lane
St Louis, MO 63124
314-645-8510

Singhal, Gokul C IM
9350 Gravois
St Louis, MO 63123
314-638-9300

Sisk, James C D
121 N Brentwood Blvd
St. Louis, MO 63105
314-725-7007

Sislen, Donald R IM
621 S New Ballas Rd #460
St Louis, MO 63141
314-432-3456

Sisson, Richard G GS
4910 Forest Park Blvd. #206
St Louis, MO 63108
314-361-3676

Skimming, W. Lee ORS
621 S. New Ballas Suite 43
St. Louis, MO 63141
314-872-8015

Skinner, John S IM
35 N Central #436
St Louis, MO 63105
314-726-1166

Skor, Donald A END
Barnes Hosp Plaza #17312
St. Louis, MO 63110
314-362-7625

Slavin, Raymond G IM
1402 South Grand
St Louis, MO 63104
314-664-9800

Sletten, Ivan W P
11155 Dunn Rd
St Louis, MO 63136
314-355-1244

Slocum, Stephen G OPH
1034 S. Brentwood
Suite 694
St. Louis, MO 63117
314-721-8250

Smiley, Wm L OBG
2715 Union Blvd
St Louis, MO 63113
314-381-2741

Smit, Herbert M OTO
8724 W Kingbury
St Louis, MO 63124

Smith, Benj F OBG
35 N. Central Ave.
St. Louis, MO 63105
314-727-3439

Smith, Dermott A P
1221 S Grand Blvd
St Louis, MO 63104
314-771-7600

Smith, Emily L DR
510 S Kingshighway
St Louis, MO 63110
314-362-2823

Smith, Garland F ORS
621 S New Ballas Rd
St Louis, MO 63141
314-872-8015

Smith, Herbert P GP
2265 Florida Mango Rd
West Palm Beach, FL 33406

Smith, Hugh R OBG
5105 Melilla Dr.
St Louis, MO 63128
314-821-3900

Smith, James B P
110 S Central Ave #400
St Louis, MO 63105
314-862-6007

Smith, Kathleen P
RR 1, Box 312
DuQuoin, IL 62832

Smith, Kenneth R Jr. NS
1325 S Grand Blvd
St Louis, MO 63104
314-577-8795

Smith, Morton E OPH
660 S Euclid St Box 8096
St Louis, MO 63110
314-362-7164

Smith, Norman E OBG
8736 Radley Court
St. Louis, MO 63144
314-961-4677

Smith, Peter G OTO
4911 Barnes Hosp Plaza #108
St. Louis, MO 63110
314-362-7509

Smith, Robt W R
10010 Kennerly Rd
St Louis, MO 63128
314-842-3560

Smith, Sally M PD
1465 S. Grand Blvd.
St. Louis, MO 63104
314-577-5600

Smith, Sidney E IM
2715 Union St #108
St Louis, MO 63113
314-261-4844

Smuckler, David IM
11655 West Florissant
Florissant, MO 63033

Sobky, George H DR
2305 W. Georgia
Louisiana, MO 63353
314-745-5533

Sohn, Richard N
4989 Barnes Hosp Plaza 17303
St Louis, MO 63110
314-362-7240

Solanki, Nareshkumar J PD
1101 E. So Service Rd. #240
Wentzville, MO 63385
314-434-7475

Solomon, Felix G AN
11326 Mosley Lane
St Louis, MO 63141
314-569-1147

Sommer, Conrad S P
200 S. Hanley Rd. #319
St Louis, MO 63105
314-863-0871

Sommer, Rand W IM
1034 South Brentwood Blvd
St. Louis, MO 63117
314-721-0666

Sommer, Ross B IM
1034 S Brentwood St #1050
St Louis, MO 63117
314-721-0666

Soorya, Narendir T P
6651 Chippewa
St. Louis, MO 63109

Sopuch, John A OBG
901 Claymont Plaza
Ballwin, MO 63011
314-739-8500

Sosna, Jacob P IM
6651 Chippewa #311
St Louis, MO 63109
314-644-1709

Soto, Albert A P
522 N New Ballas Rd #317
St Louis, MO 63141
314-567-1958

Spalding, Donald G R
621 S New Ballas Rd
St Louis, MO 63141
314-569-6032

Spector, Gene W R
4937 Laclede Ave. #2
St. Louis, MO 63112
314-441-6730

Spector, Gershon OTO
4911 Barnes Hospital Plaza
St Louis, MO 63110
314-362-7510

Speiser, James C IM
10000 Watson Rd #2R
St. Louis, MO 63126
314-664-6500

Spencer, Andrew GS
533 De Baliviere Ave
St Louis, MO 63112

Spencer, Jean F OPH
537 Warren
St. Louis, MO 63130
314-725-9257

Speno, Angelo A OM
1001 N Highway Drive
Fenton, MO 63026
314-343-3249

Spernoga, John F IM
911 S. Brentwood #208
St. Louis, MO 63105
314-725-0539

Spewak, Robert D PD
13183 Royal Pines Dr.
St. Louis, MO 63146
314-644-2727

Spivack, Alan R IM
224 S. Woods Mill Rd. #620
Chesterfield, MO 63017
314-434-8001

Spoeneman, Marlin C GP
1155 Hillsboro Mile #608
Hillsboro Bch, FL 33062

Spraul, James H OM
800 No Lindbergh
St Louis, MO 63166
314-694-8807

Sprehe, Samuel E OTO
1641 Crabapple Lane
St. Louis, MO 63110
314-968-3989

Spurgeon, Stephen EM
1031 Bellevue Ave. #300
St. Louis, MO 63117
314-781-2252

Squitieri, Alphonse J IM
9616 Lackland Rd.
St. Louis, MO 63114
314-427-1655

Srisuro, Chotchai OBG
533 Couch Ave #287
St. Louis, MO 63122
314-821-9144

---

* Doctor of osteopathy.

Srivisal, Somnuk R
1877 Schoettler Valley Dr.
Chesterfield, MO 63017
314-781-1103

Stafford, Walter R OPH
141 N Meramec Ave #201
St. Louis, MO 63105
314-725-1067

Stanfield, Ned M AN
8048 Blackberry Ave
St. Louis, MO 63130

Starke, Keith M IM
4600 S. Linbergh
St. Louis, MO 63127
314-567-6000

Starkloff, Gene B GS
5266 Westminster
St Louis, MO 63108

Stavrides, Pete D ORS
11140 S. Towne Sq. #105
St. Louis, MO 63123
314-352-5400

Steele, Jack T FP
3466 Bridgeland
Suite 110
Bridgeton, MO 63044
314-291-6660

Stegeman, Dale M FP
1502 St. Louis Ave.
St. Louis, MO 63106
314-621-2575

Steiling, Sylvia A GS
10007 Kennerly Rd.
St. Louis, MO 63128
314-849-2727

Stein, Harry J FP
2304 Hord Ave.
St. Louis, MO 63136
314-383-1100

Stein, Paul M IM
450 N. New Ballas Rd. #201
St. Louis, MO 63141
314-872-8740

Steinberg, Franz U PM
216 South Kingshighway
St Louis, MO 63110
314-454-7756

Steiner, Alexander J IM
141 N Meramec Ave Ste 2
St. Louis, MO 63105
314-725-2332

Steinhardt, George F U
1465 S. Grand
St. Louis, MO 63124
314-577-5334

Stephen, C. Ronald AN
15801 Harris Ridge Court
Chesterfield, MO 63017

Stephens, Wm A ORS
1959 Kehrs Mill Rd. Rt 24
Chesterfield, MO 63017

Stergen, Nick E OBG
RR 1, Box 132 N
Augusta, MO 63332
314-228-4745

Sterkel, Richard L IM
1035 Bellevue
St Louis, MO 63117
314-644-6161

Stewart, L Paul OPH
8 Broadview Farm Road
St. Louis, MO 63141
314-567-6296

Stickle, Arthur W OPH
135 W Adams #104
St. Louis, MO 63122

Stickley, Louis P CD
621 S New Ballas Rd #3005
St Louis, MO 63141
314-569-6168

Stiehl, James B ORS
3472 Bridgeland Suite E
Bridgeton, MO 63044
314-298-8177

Stillings, Wayne P
1034 S Brentwood
Suite 516
St Louis, MO 63117
314-721-8242

Stindel, Chas E OM
341 Violet Lane
St Louis, MO 63119

Stohr, Paul E NS
1035 Bellevue Ave
St Louis, MO 63117
314-644-6665

Stokes, James M GS
1034 S Brentwood #854
St. Louis, MO 63117
314-863-3801

Stoliar, Bruce U
11115 New Halls Ferry Rd.
Florissant, MO 63033
314-838-8244

Stoneman, William III GS
1402 S Grand Blvd
St Louis, MO 63104
314-658-2222

Stratmann, Henry G IM
12389 Ross Ridge Ct.
St. Louis, MO 63146

Strecker, William B ORS
4960 Audubon Ave.
Rm 115
St. Louis, MO 63110
314-362-7311

Strickland, James C ORS
35 Huntleigh Woods
St. Louis, MO 63131
314-991-5858

Strobach, Kurt F OBG
304 Cabin Grove Lane
St. Louis, MO 63141
314-739-6550

Stronach, Linda L IM
1031 Bellevue Ave. Suite 260
St. Louis, MO 63117
314-644-3250

Stronsky, David ORS
12100 Carberry
St Louis, MO 63131

Stroud, Malcolm H OTO
517 South Euclid
St Louis, MO 63110
314-362-7547

Stryker, Wm I P
6400 Clayton Rd. Suite 401
St Louis, MO 63117
314-647-0411

Stuebner, Roland W GS
11964 Adorono Place
San Diego, CA 92128

Suba, Antonio R GS
12085 Heatherdane
St Louis, MO 63131
314-991-0280

Sudekum, Joseph M ORS
621 S. New Ballas Rd. #53
St Louis, MO 63141
314-569-1212

Sudholt, Alfred F OBG
500 Northwest Plaza Ste 524
St Ann, MO 63074
314-291-2614

Sullivan, Clement J IM
6744 Clayton Rd Rm 311
St Louis, MO 63117
314-644-0151

Sullivan, Wm K GPM
#23 Conway Lane
St. Louis, MO 63124

Sullivan, Wm W IM
12166 Big Bend Blvd
St. Louis, MO 63122
314-821-9150

Sumer, Cengiz M P
220 Runnymede Dr
St Louis, MO 63141
314-291-6135

Sumer, Emel A CHP
3394 McKelvey Rd.
Bridgeton, MO 63044
314-291-6135

Summers, John B PD
10349 Watson Rd
St Louis, MO 63127
314-965-4050

Summers, Thos F GP
P.O. Box 609
Olney, IL 62450

Sunderman, Raymond C IM
1600 Monticello Dr
St Louis, MO 63138

Sundermann, Richard H P
110 S. Central Suite 400
St. Louis, MO 63105
314-862-6007

Sunshine, Herbert U
456 N New Ballas #348
St Louis, MO 63141
314-567-6071

Sutter, Richard A OM
7215 Greenway Dr.
St Louis, MO 63130
314-621-4300

Suwannasri, Ruenrudee IM
950 Francis Place #200
St. Louis, MO 63105
314-727-1992

Svancarek, Wm P EM
11133 Dunn Rd.
St.Louis, MO 63136
314-355-2300

Swaykus, Bernard T IM
3394 McKelvey Rd.
Bridgeton, MO 63044
314-291-3410

Swope, Jos A IM
10004 Kennerly
St Louis, MO 63128
314-842-3200

Sylvanovich, W. Richard GE
621 S. New Ballas Ste.3008
St Louis, MO 63141
314-569-6973

Szoko, Edward R
10010 Kennerly Rd.
St. Louis, MO 63128
314-946-6657

Tailor, Chandrakant C R
11155 Dunn Rd.
St. Louis, MO 63136
314-355-5032

Talwar, Tara IM
2255 Keeven Lane
Florissant, MO 63031

Tanaka, Geo M IM
5611 Sutherland
St Louis, MO 63109

Tanphaichitr, Kongsak IM
12166 Royal Valley Dr.
St. Louis, MO 63141
314-839-4339

Tantana, Supranee DR
809 Killiney Dr.
Manchester, MO 63011
314-394-9016

Tashma, Sigmund S US
904 Dalkeith Lane
St Louis, MO 63132

Tatkow, Robert W ORS
456 N New Ballas
Suite 369
St Louis, MO 63141
314-569-1830

Taussig, Barrett L IM
513 Pamela Lane
St Louis, MO 63122

Taute, Hermann OBG
2821 N Ballas Rd
St Louis, MO 63131
314-872-8636

Taylor, Eugene D OBG
2715 N Union
St Louis, MO 63113
314-385-5550

Tayob, Anver A ORS
1325 S Grand Blvd
St Louis, MO 63104
314-577-8850

Tekwani, Hiralal T OPH
9911 Kennerly Road
St Louis, MO 63128
314-842-2020

Temporal, Jose A FP
2641 Keokuk St.
St Louis, MO 63118
314-772-5350

Tepper, Arnold IM
777 S New Ballas Rd #214 E
St Louis, MO 63141
314-432-6688

Ternberg, Jessie L PDS
400 S. Kingshighway Ste 5W12
St Louis, MO 63110
314-454-6000

Terschluse, David A GS
12255 DePaul Dr.
Bridgeton, MO 63044

Tess, Allen F OPH
1245 Graham Rd #502
Florissant, MO 63031
314-837-3667

Tess, Melvin J PH
1501 Switzer Ave
St Louis, MO 63147

Tessier, John E ORS
10004 Kennerly # 171 B
St. Louis, MO 63128
314-842-2733

Thale, Thos R P
11 S. Meramec
Suite 1000
St. Louis, MO 63105
314-727-7700

Thawley, Stanley OTO
4911 Barnes Hospital Plaza
St Louis, MO 63110
314-362-7509

Thiel, J. Allen A
621 South New Ballas Rd
368
St Louis, MO 63141
314-872-7958

Thiele, Belmont R GS
6862 W. Baile Rd.
Las Vegas, NV 89102

Thierauf, Chas G R
9444 Sunny Creek
St Louis, MO 63127
314-865-3333

Thoma, Geo E Jr. IM
4400 Lindell Blvd. #303
St Louis, MO 63108
314-577-8100

Thomas, J. Regan PSF
4911 Barnes Hosp plz
St. Louis, MO 63110
314-362-7529

Thomas, Lewis J JR AN
700 S Euclid
St Louis, MO 63110
314-362-6928

---

* Doctor of osteopathy

Thomas, Roy L GS
300 Mansion House Center
Apt. 1402
St. Louis, MO 63102
Thomasson, Jeffrey L DR
6604 Pershing Ave.
St. Louis, MO 63130
314-569-1761
Thomasson, Mary W R
935 Tirrill Farms Rd.
St. Louis, MO 63124
314-837-3720
Thomasson, Robert E GS
100 N Euclid Ave.
St. Louis, MO 63108
314-837-3721
Thompson, M. Bryant OBG
224 South Woods Mill Rd.
#720
Chesterfield, MO 63017
314-576-6166
Thomson, William M IM
224 S. Woods Mill Rd.
#500
Chesterfield, MO 63017
314-878-6260
Thurmann, Manfred IM
6400 Clayton Road Suite 212
St Louis, MO 63117
314-645-6450
Thurston, Donald L PD
21 Cambridge Ct
St Louis, MO 63122
314-454-6031
Tichenor, Robt W FP
P. O. Box 8568
St Louis, MO 63126
314-843-1111
Tillman, Mary A PD
W Florissant & Lucas Hunt Rd
#330 Northland Off Bldg
St Louis, MO 63136
314-385-5522
Tindall, Robt N OTO
3719 Jones St.
Sioux City, IA 51104
Tippett, Jack C ORS
7709 Cloverleaf Dr
St Louis, MO 63123
314-658-5702
Tobey, Albro C Jr. OBG
777 S. New Ballas Rd. #215 E
St. Louis, MO 63141
314-567-7303
Tonelli, Geo L OTO
5723 Neosho
St Louis, MO 63109
Torin, Bernice A OBG
951 Old Bonhomme
St Louis, MO 63132
Toro, Enrique F IM
350 Country Glen Lane
St Louis, MO 63141
314-821-3900
Toro, Jaime R
6150 Oakland Ave.
St. Louis, MO 63139
314-394-7941
Totty, William G R
510 S. Kingshighway
St. Louis, MO 63101
Treiman, Robt C IM
7 Radnor Rd
St Louis, MO 63131
Trigg, Joseph F GP
13 Caloosa Rd
Key Largo, FL 33037
*Trimmer, Kenneth B IM
6 Jungermann Circle
St. Peters, MO 63376
314-576-6707
Triska, Roland A PD
533 Couch #120
St. Louis, MO 63122
314-966-3324
Trotta, Philip C DR
898 Durrow Drive
St. Louis, MO 63141
314-567-5957
Trotter, Francis O Jr. R
112 Walnut Drive
Carrollton, MO 64633
Trotter, John L N
660 S. Euclid Box 8111
St. Louis, MO 63110
314-362-7177
Trueblood, Alva C OBG
731 N. Taylor
St Louis, MO 63122
314-965-9200
Trugly, Edith S P
12 Hacienda Dr
St Louis, MO 63124
314-569-0811
Trunko, Leo IM
1900 Telegraph Rd
St Louis, MO 63125
314-544-2211

Tschoe, Bjong suhn PS
6401 West Main Street
Belleville, IL 62223
618-398-5600
Tschudin, Garland PD
Rt 2 Box 16
Pacific, MO 63069
Tsifutis, Argyrios A PD
3434 Bridgeland
Bridgeton, MO 63044
314-291-4994
Tucker, Dolores R D
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-878-2556
Tucker, Eugene F PTH
6420 Clayton Rd
St Louis, MO 63117
314-768-8000
Tucker, Geo L GS
224 S. Woods Mill Rd.
670
Chesterfield, MO 63017
314-434-3031
Tucker, Robert E ORS
533 Couch Ave. # 220
St. Louis, MO 63122
314-966-0111
Turgeon, Ronald P PTH
6420 Clayton Rd
St Louis, MO 63117
314-644-3000
*Turner, Timothy T FP
1225 Graham Rd #2N
Florissant, MO 63031
314-355-2300
Tuteur, Peter G IM
660 S. Euclid Box 8043
St. Louis, MO 63110
314-362-6985
Twedell, Donald L OM
6670 Estero Blvd. #502-A
Ft Meyers Beach, FL 33931
Uchiyama, Robert C IM
805 Killiney
Manchester, MO 63021
314-394-1525
Uhlemeyer, Henry A OTO
12017 Point Oak Rd.
St Louis, MO 63131
Ulett, Geo A P
6484 Clayton Ave.
St Louis, MO 63139
314-645-0860
Ulett, Pearl C CHP
6484 Clayton Ave.
St. Louis, MO 63139
314-645-0860
Ungvari, Jos C GS
6500 Chippewa Ste 107
St Louis, MO 63109
314-351-1480
Vacca, Jos B IM
3915 Watson Rd
St Louis, MO 63109
314-644-7100
Vadlamani, S GS
6651 Chippewa Suite 218
St Louis, MO 63109
314-781-1580
Vafi, Houshang P
3125 Lemay Ferry Rd.
St Louis, MO 63125
314-892-4555
Valach, Frank J OBG
2821 N Ballas Rd
St Louis, MO 63131
314-872-7070
Valtierra, Cesar A P
6744 Clayton Rd #301
St Louis, MO 63117
314-781-2012
Van Amburg, Albert L III IM
4910 Forest Park #202
St. Louis, MO 63108
314-361-7786
Van Norman, Robt T PS
6651 Chippewa
St Louis, MO 63109
314-644-0450
VanderWoude, John C GS
12802 Riva Ridge
Houston, TX 77071
Vandivort, Paul M Jr. P
141 N. Meramec
St. Louis, MO 63105
Vandover, John T GP
3 Grantwood Lane
St Louis, MO 63123
Vannier, Michael W R
510 S. Kingshighway
St. Louis, MO 63110
314-362-8467
VanGoidsenhoven, Guy E IM
6400 Clayton Road #316
St Louis, MO 63117
314-644-5656

Vardeleon, Roger V GS
3908 S. Grand Blvd
St Louis, MO 63118
314-843-5555
Vargas, Teodoro FP
319 N First St
Pacific, MO 63069
314-257-3946
Vatterott, Paul B GP
55 Chaminade Dr
St Louis, MO 63141
Vatterott, Paul B Jr. IM
1538 Woodlake Dr.
Chesterfield, MO 63017
314-434-1600
Vaughan, J R OBG
940 Golf Course Dr
St Louis, MO 63132
Velasco, Ernesto T OM
1704 S Broadway
St Louis, MO 63104
314-436-5100
Venable, H. Philip OPH
6 Manchester Mall
P. O. Box 334
Ballwin, MO 63022
314-227-0827
Verde, Julian N R
942 Marshall Ave.
St Louis, MO 63119
314-645-9003
Vest, James C TS
12255 DePaul Dr # 150
Bridgeton, MO 63044
314-567-4142
Viamontes, Gloria E CHP
11745 Olive St. Rd. #205
St. Louis, MO 63141
314-567-5011
Viamontes, Jorge A P
11745 Olive St. Rd.
St Louis, MO 63141
314-567-5011
Vianzon, Elizabeth R OBG
14011 Weathersfield Terrace
Chesterfield, MO 63017
314-367-5820
Vickar, Garry M P
1245 Graham Rd Rm 506
Florissant, MO 63031
314-837-4900
Vierling, Stephen E ORS
Southwest Orth Inc.
10004 Kennerly Rd.
St. Louis, MO 63128
314-849-6555
Viers, Wayne A OTO
135 W Adams # 302
St Louis, MO 63122
314-966-5252
Vighi, James R OTO
2850 W Clay
St Charles, MO 63301
314-724-1940
Vijungco, Herminia D AN
10010 Kennerly Rd.
St. Louis, MO 63128
314-355-2300
Vijungco, Jose G R
10010 Kennerly Rd.
St. Louis, MO 63128
314-842-3560
Vilar, Pio M GS
4211 Bayless
St Louis, MO 63123
314-638-2725
Villafuerte, Nila A AN
12563 Hibler Woods Dr.
St Louis, MO 63141
314-434-1500
Villafuerte, Renato G CLP
202 Manchester Rd #204
Manchester, MO 63011
Villamar, Elizabeth N OBG
8059 Watson Rd.
St Louis, MO 63119
314-961-8206
Villarama, Antonio P GS
P. O. Box 177
High Ridge, MO 63049
314-677-3469
Vinjamuri, Madhav B AN
14848 Grantley Dr.
Chesterfield, MO 63017
314-362-6973
Virant, John A OTO
119 S. Spoede Rd
St Louis, MO 63141
Vitale, Anthony J GS
81 Burning Tree
Chesterfield, MO 63017
Vitale, Nicholas S GP
614 Coachlight Lane
Hazelwood, MO 63042
Vitale, Stephen J D
14377 Woodlake Dr. #108
Chesterfield, MO 63017
314-434-8477

---

* Doctor of osteopathy.

Vitale, Thomas J Jr.	621 South New Ballas Road # 107 St Louis, MO 63141 314-569-6440	GS
Vitale, Victoria A	111 E. Hibiscus Blvd. Melbourne, FL 32901 305-727-1600	GS
Viviano, Jos G	16 Hampton Village St Louis, MO 63109 314-351-9091	OBG
*Vlahovich, Gary A	2200 West Port Plaza Dr. Suite 212 St. Louis, MO 63146 314-576-6707	IM
Vollmar, Lewis C Jr.	10004 Kennerly Rd #300 St Louis, MO 63128 314-842-4840	D
Votaw, Robt E	10 Warson Terrace St Louis, MO 63124	OTO
Vournas, Christopher G	12255 DePaul Dr Suite 865 Bridgeton, MO 63044 314-291-7730	IM
Vournas, George C	12255 DePaul Dr. Bridgeton, MO 63044 314-291-7730	CD
Wacker, Leo L	3563 Ritz Center Dr St Louis, MO 63125 314-892-3132	FP
Wagan, Primitiva C	300 S Grand St Louis, MO 63103 314-658-5648	IM
Wagner, John R	3009 N Ballas St Louis, MO 63131 314-569-0612	ORS
Waite, John G	77 Westport Plaza, Suite 368 St Louis, MO 63146 314-434-1560	P
Wald, Stanley M	4511 Forest Park Blvd St Louis, MO 63108 314-367-5308	IM
Walentik, Corinne	7234 Princeton Ave. St Louis, MO 63130	PD
*Walker, David Brooks	11245 St. Charles Rock Rd. Bridgeton, MO 63044 314-739-6300	D
Walker, Francis S	1035 Bellevue Ave St Louis, MO 63117 314-644-6565	NS
Walker, Harvey Jr.	138 N Meramec Ave St. Louis, MO 63105 314-721-7227	IM
Walker, J Leslie	11709 Old Ballas Rd. #202 St. Louis, MO 63141 314-567-6580	OBG
Wall, Emmett D	5823 Neosho St Louis, MO 63109	IM
Wall, Lester E	533 Couch St. Louis, MO 63122 314-821-2100	PDA
Walsh, Barbara A	1462 Royal Spring Dr. St. Louis, MO 63122 314-567-5016	OBG
Walsh, James W	1034 S Brentwood Blvd St Louis, MO 63117 314-721-0666	IM
Walter, Wm L	135 W Adams #104 St Louis, MO 63122 314-892-8211	OPH
Walters, Harold E	6744 Clayton Rd. Suite 210 St Louis, MO 63117 314-645-7636	GS
Walters, Henry W	275 N. Union Blvd. St. Louis, MO 63108	D
Walters, Richard C	7511 Big Bend Blvd St. Louis, MO 63119	US
Walther, Roy A Jr.	9440 Midland St Louis, MO 63114 314-426-3444	OBG
Waltman, Stephen R	660 S. Euclid Ave. Box 8096 St Louis, MO 63110 314-362-7180	OPH
Walz, Bruce J	10010 Kennerly Rd. St Louis, MO 63128 314-525-1688	TR
Wanless, Robert C	6401 W. Main St. #2-D Belleville, IL 62223 618-398-5600	PS
Washington, Walter	3400 N Kingshighway Blvd. St Louis, MO 63115 314-385-3600	GS
Wasserman, Alan	2623 Telegraph Road St. Louis, MO 63125	OBG
Wasserman, Gary M	2821 N. Ballas Rd. St. Louis, MO 63131	OBG
Wasserman, Helman C	911 S Brentwood Blvd St Louis, MO 63105 314-721-8852	OBG
Wasserman, Mark S	36 Ladue Estates St. Louis, MO 63141 314-532-0999	OBG
Waters, Hugh R	224 S. Woods Mill Rd. Chesterfield, MO 63017 314-576-0933	IM
Waxelman, Roger J	665 Big Bend Ballwin, MO 63021 314-391-8726	PD
Wayne, Sherwyn J	533 Couch Ave. Suite 220 St Louis, MO 63122 314-966-0111	ORS
Webb, Paul B Jr.	6651 Chippewa St #203 St Louis, MO 63109 314-647-8015	OPH
Webber, Wm B	6400 Clayton #110 St Louis, MO 63117 314-781-2889	PS
Weber, J. Russell	533 Couch Ave. Suite 220 St Louis, MO 63122 314-966-0111	ORS
Weber, Thomas R	1465 S. Grand Blvd. St. Louis, MO 63104 314-577-5629	GS
Webster, Raymond L	P. O. Box 79 Johnston, IA 50131	AM
Wee, Geo C	P.O. Box 1226 Ballwin, MO 63011 314-391-8445	GS
Weeks, Paul M	4949 Barnes Hospital Plaza Suite 17424 St Louis, MO 63110 314-362-7390	PS
Weiler, Thos J	615 South New Ballas Rd St Louis, MO 63141 314-569-6816	GS
Weinhaus, Robt S	1221 S. Grand St Louis, MO 63104 314-771-6400	P
Weir, Don C	625 Sherwood Dr St Louis, MO 63119 314-645-2838	R
Weir, Royal A	1012 Cla Ter Ri Dr Ballwin, MO 63011	GS
Weis, Landy	11133 Dunn Rd. # B103 St Louis, MO 63136 314-355-2300	PTH
Weiss, Alan N	4989 Barnes Hosp Plaza 17312 W. Pavilion St Louis, MO 63110 314-362-7825	CD
Weiss, Howard	141 N Meramec Ave St Louis, MO 63105 314-726-3202	N
Weiss, Stuart	4989 Barnes Hospital Plaza Suite 16304 St Louis, MO 63110 314-367-3122	N
Weiss, Terry D	522 North New Ballas Rd. #240 St. Louis, MO 63141 314-567-1862	IM
Weldon, Clarence S	4989 Barnes Hosp Plz # 3108 St Louis, MO 63110 314-362-7260	CDS
Weldon, Virginia V	660 Euclid Box 8106 St Louis, MO 63110 314-362-6827	PD
Wells, Samuel A Jr.	4960 Audubon Ave. St. Louis, MO 63110 314-362-7305	GS
Welsh, Laurence C	103 Old Watson Rd St Louis, MO 63119 314-487-7277	FP
Wenneker, Alvin S	8112 Delmar Blvd St Louis, MO 63130 314-725-7400	IM
Werner, Wm A	6015 Childress Ave. St Louis, MO 63109 314-569-6958	IM
West, Jos W	135 West Adams Suite 304 St Louis, MO 63122 314-966-6656	OTO
Westerman, Robt N	6744 Clayton Rd # 202 St Louis, MO 63117 314-647-3584	GS
Westrup, Ellsworth A	8540 Big Bend Pd St. Louis, MO 63119 314-961-0138	GP
Wexler, Stephen A	211 North Meramec St. Louis, MO 63105 314-863-4200	OPH
Weyerich, Noel F	621 S New Ballas Rd St Louis, MO 63141 314-432-4415	IM
Weyman, Philip J	510 S. Kingshighway St. Louis, MO 63110 314-362-2928	R
White, Bruce I	456 N New Ballas Rd #211 St. Louis, MO 63141 314-569-2030	PS
White, Newton B	10004 Kennerly Rd. Suite 162B St Louis, MO 63128 314-849-4800	ORS
Whitener, Miles C	3015 N. Ballas St Louis, MO 63131 314-569-5131	IM
Whiteside, Leo A	12255 DePaul Dr. Bridgeton, MO 63044 314-291-7181	ORS
Whittico, James M	2715 Union Blvd St Louis, MO 63113 314-382-7500	GS
Wiant, James R	621 S New Ballas Rd #3005 St Louis, MO 63141 314-569-6107	PUD
Wice, Martin B	St. John's Mercy Med Ctr 615 S. New Ballas Rd St. Louis, MO 63141 314-569-6945	PM
Wiegand, Herbert C	4989 Barnes Plaza #3102 St Louis, MO 63110 314-361-7660	IM
Wiener, Jonathan I	4444 West Pine Blvd Apt 406 St. Louis, MO 63108 314-531-9632	R
Wilbois, Ronald P	3009 North Ballas Rd #208 St Louis, MO 63131 314-872-9200	OBG
Wilkinson, David	10007 Kennerly Rd St Louis, MO 63128 314-843-0122	NS
Willey, Charles J	4121 Union Blvd. #224 St. Louis, MO 63129 314-894-3053	IM
Williams, Carol F	950 Francis Pl. Suite 303 St Louis, MO 63105 314-725-0511	GYN
Williams, Joseph	621 S New Ballas Rd. Suite 101 St.louis, MO 63141 314-567-0600	ORS

---

* Doctor of osteopathy

Williams, Paul A FP
4256 Maryland
St. Louis, MO 63108
Williams, R. Jerome Sr. IM
3409 N Union
St Louis, MO 63115
314-261-4834
Williams, Roy J Jr. IM
5221 Westminster Pl
St. Louis, MO 63108
314-454-1059
Williamson, Walter E OM
514 Hillcrest Circle
Bridgeport, VA 26330
Willig, Stephen J IM
P. O. Box 9110
St. Louis, MO 63117
314-644-3520
Willis, H. Robert EM
646 N. Kirkwood
St Louis, MO 63122
314-724-2810
Willman, Vallee L GS
1325 S. Grand Blvd.
St Louis, MO 63104
314-771-7600
Wilucki, Melvin R GP
6455 Westway Rd.
St. Louis, MO 63109
314-631-7113
Wimmer, Warren J PD
3220 Parker Rd
Florissant, MO 63033
314-921-4500
Windsor, Chas E OPH
621 S New Ballas Rd #5108
St Louis, MO 63141
314-567-5602
Winer, Michael H ORS
522 N New Ballas Rd #199
St Louis, MO 63141
314-432-2323
Wingkun, Edwin C N
1300 Drayton
St. Louis, MO 63119
Wingkun, Janet G PD
1300 Drayton
St. Louis, MO 63119
Winter, John H IM
3394 McKevey Rd
Bridgeton, MO 63044
314-739-5070
Winter, Tyrus D OBG
100 N Euclid #303
St Louis, MO 63108
314-361-6633
Winters, Kathleen PD
100 North Euclid #6
St Louis, MO 63108
314-361-6700
Winthrop, James D DR
7002 Cameo Dr. SW
Tacoma, WA 98498
314-821-7634
Wissner, Seth E OBG
16 Hampton Village
St Louis, MO 63109
314-352-6969
Withrow, Donald CLP
11636 Administration Dr.
St Louis, MO 63141
314-567-3905
Witt, Clyde M R
527 Meadow Creek Lane
St Louis, MO 63122
Wittgen, Edward M ORS
8901 Rock Forest Dr.
St Louis, MO 63123
314-647-8562
Wittler, Harry A GS
325 N Kirkwood Rd #302
St. Louis, MO 63122
314-821-6162
Wolf, James A Jr. GS
1409 McCausland Ave.
St. Louis, MO 63117
Wolfe, Edward M D
777 S New Ballas Rd
St Louis, MO 63141
314-432-8199
Wolff, Dolores P AN
2306 LeLand Ridge Walk
St. Louis, MO 63131
314-569-2030
Wolff, Gerald A IM
4989 Barnes Hosp Plaza
# 4103
St Louis, MO 63110
314-367-2400
Wolff, Harold D P
522 N. New Ballas #136
St. Louis, MO 63141
314-569-1717
Wolff, Ray J P
1040 N Mason
St. Louis, MO 63141
314-434-6020

Wolfgram, Edwin D P
4500 W Pine Blvd
St Louis, MO 63108
314-367-1944
Won, Russell GP
3825 S. Kingshighway
St. Louis, MO 63109
314-352-7003
Wood, James A IM
141 N Meramec
St. Louis, MO 63105
314-725-4887
Wood, John A A
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-878-6260
Wood, Tommy L OBG
6951 Delmar Blvd.
St. Louis, MO 63130
314-725-9193
Woods, John J Jr. GS
621 South New Ballas #307
St. Louis, MO 63141
314-567-6666
Wool, Gerald PD
8025 Dale
St Louis, MO 63117
314-644-2566
Woolsey, Robt M N
3 Briarcliff
St Louis, MO 63124
314-771-7600
Wotawa, Wm J OBG
3804 Wilmington Ave
St Louis, MO 63116
314-481-7224
Wright, James R Jr. PTH
7474 Ahern Ct.
St. Louis, MO 63130
314-361-6017
Wright, Jeffrey M IM
522 North New Ballas Rd.
#122
St. Louis, MO 63141
314-569-1881
Wulff, Geo J OBG
120 Camelot Dr
Tavernier, FL 33070
Wurr, Dieter H FP
Arnold Med Ctr Box 99
Arnold, MO 63010
314-296-5464
Yalcin, Enver IM
4521 Bryncastle Pl
St Louis, MO 63128
314-843-3966
Yang, Chao Yung AN
6420 Clayton Rd.
St. Louis, MO 63117
314-768-8000
Yannakakis, John E OBG
1245 Graham
Florissant, MO 63031
314-831-6517
Yanover, Robert A N
224 S. Woods Mill Rd.
Chesterfield, MO 63017
314-878-1110
Yanow, Mitchell OBG
621 S. New Ballas Rd.
Suite 4005
St Louis, MO 63141
314-567-5016
Yap, Mardonio J GS
493 Rue St Francois
Florissant, MO 63031
314-831-0077
Yasin, Fazle M P
11709 Old Ballas Rd.
11709 Old Ballas Rd 103
St. Louis, MO 63141
314-993-8950
Yassin, Kamal AN
353 Glan Tai Dr.
Manchester, MO 63011
314-394-0843
Yates, Darrel W DR
3009 N. Ballas Ste 131
St Louis, MO 63131
314-432-5284
Yazdi, Tom M OBG
16 Hampton Village Plaza
# 233
St Louis, MO 63109
314-352-6969
Ylagan, Amando Jr. GS
8548 Bryan Ave.
St Louis, MO 63117
314-644-0256
Yoselevsky, Robert OPH
621 S. New Ballas Rd. #5006
St. Louis, MO 63141
314-432-5478
Young, Paul H NS
9815 Mackenzie Rd.
St. Louis, MO 63128
314-544-3433

Young, Robert A GS
456 N. New Ballas Rd. #211
St. Louis, MO 63141
314-569-2030
Young, Vernon L PS
4960 Audubon
St. Louis, MO 63110
314-362-7390
Younger, Anita C GP
3814 Ballantrae Drive
Sarasota, FL 33583
Younger, Ernest GP
4545 Wornall #310
Kansas City, MO 64111
Zahorsky, Theodore S PD
5190 3 Kings Highway
Saugerties, NY 12477
Zeffren, Joel L IM
8038 Cornell Ave.
St. Louis, MO 63130
314-427-2424
Zehnder, Kenneth W ORS
6400 Clayton Rd. #302
St. Louis, MO 63117
314-647-8562
Zeigler, Jos M R
1840 Woodtin Ct.
St Louis, MO 63122
314-865-3333
Zekert, Horst IM
c/o Gen American Life Ins
13045 Tesson Ferry Rd.
St Louis, MO 63128
314-525-5218
Zia, Rashid P
14574 Bexhill Ct.
Chesterfield, MO 63107
314-487-0400
Ziegler, Robert E IM
7511 Big Bend Boulevard
St. Louis, MO 63119
314-962-4511
Zimmerman, Herbert B IM
456 N. New Ballas
Suite 299
St Louis, MO 63141
314-569-1090
Zingale, Frank G U
13730 Aleppo Dr.
Sun City, MO 85375
314-351-0155
Zink, Robert A FP
5101 Hampton Ave.
St. Louis, MO 63109
314-481-4455
Zink, Thomas K PTH
615 S. New Ballas
St. Louis, MO 63141
314-731-1143
Zivnuska, Frederick R TR
29 Summerhill Ln.
Ballwin, MO 63011
314-569-6844
Zografakis, Geo H PS
4949 Barnes Hospital Plaza
Suite 1741B
St Louis, MO 63110
314-361-3612
Zotos, Veronica D PTH
10010 Kennerly Rd.
St. Louis, MO 63128
314-525-1144
Zuckner, Jack IM
522 N New Ballas #240
St Louis, MO 63141
314-567-5100
Zukowski, Edward T R
88 River Bend Dr.
Chesterfield, MO 63017
314-781-1103
Zwirn, Hans B PD
493 St Francois
Florissant, MO 63031
314-838-4303
Zylka, John M IM
202 Papin Ave.
Webster Groves, MO 63119
314-962-2525

198—SALINE

Baik, Kenneth Y GS
917 South Odell
Marshall, MO 65340
816-886-9644
Blalock, Robt W IM
370 S Odell St
Marshall, MO 65340
816-886-3366
Butner, Michael R FP
370 S Odell
Marshall, MO 65340
816-886-3565
Hamid, Rashid S FP
107 E. Vine
Brunswick, MO 65236
816-548-3021

---

* Doctor of osteopathy.

Knipschild, Bedford F GP
370 S Odell St
Marshall, MD 65340
816-886-3366
Lawrence, John R GP
Professional Bldg
Arrow Rock, MO 65320
816-837-3430
McBurney, Chas A FP
927 Hurt St.
Slater, MO 65349
816-529-3222
McCorkle, E L GP
Marshall Prof Bldg
Marshall, MO 65340
816-886-6131
Papreck, K T FP
370 S Odell
Marshall, MO 65340
816-886-3366
Raynor, Richard C GP
370 S Odell
Marshall, MO 65340
816-886-3366
Roehrs, Marvin E GP
370 S Ddell St
Marshall, MD 65340
816-886-3366
Uhrig, Jack R IM
O'Dell Avenue Clinic
370 South O'Dell
Marshall, MO 65340
816-886-3366

202—SEMO (Stoddard-New Madrid-Mississippi-Scott Counties)

Ahlvin, Robt C PTH
Delta Community Hospital
Sikeston, MO 63801
314-471-1600
Angelos, Brad J NEP
1012 N. Main
Sikeston, MO 63801
314-471-0330
Askew, John H FP
1012 N Main Street
Sikeston, MO 63801
314-471-0330
Barkett, Kenneth J OPH
1012 N. Main
Sikeston, MO 63801
314-471-0330
Blanton, Jos C PD
1012 N Main St
Sikeston, MO 63801
314-471-0330
Bowers, Gregory R AN
MDMC 1008 N. Main
Sikeston, MO 63801
314-461-1600
Bruce, Leo A OPH
808 E Wakefield
Sikeston, MO 63801
314-471-3358
Campbell, James W GP
Advance, MD 63730
314-722-5173
314-722-5173
Cento, Donald PTH
Mo. Delta Community Hosp.
Sikeston, MO 63801
314-471-1600
Chouinard, Michael P IM
1012 N Main St
Sikeston, MO 63801
314-471-0330
Colbert, Robt S R
108 Salcedo Road
Sikeston, MO 63801
314-471-1600
Comeau, Richard J GP
W Grant-Catalpa Sts
Dexter, MO 63841
314-624-3137
Critchlow, Michael E IM
1012 North Main
Sikeston, MO 63801
314-471-0330
Critchlow, Wm C FP
P. O. Box 1068
Sikeston, MD 63801
314-471-0330
Felker, C. Edward III OTO
1118 N. Main
Sikeston, MO 63801
314-471-6992
Frazier, Robt L FP
110 Dudley Dr
Sikeston, MO 63801
314-471-1600
Harrison, Thomas J Jr. PD
1012 N. Main St.
Sikeston, MD 63801
Heath, Jimmy D GP
320 N Lincoln
P. O. Box 38
East Prairie, MO 63845
314-649-3026
Heeb, Max A GS
1012 N Main St
Sikeston, MO 63801
314-471-0330
Helfrich, Loring GS
1012 N Main
Sikeston, MO 63801
314-471-0330
Hill, Ronald T GS
1300 N. One Mile Rd., Ste. 5
Dexter, MO 63841
314-624-8917
Ho, Grinny H OBG
808 E Wakefield St
Sikeston, MD 63801
314-471-7555
Jones, Stanley G Jr. FP
1012 N. Main
Sikeston, MO 63801
314-471-0330
Kahn, Joseph A PD
1012 North Main
Sikeston, MO 63801
314-471-0330
Mahboubi, Aziz O U
P. D. Box 653
Sikeston, MO 63801
314-471-6682
Masters, Edwin J FP
1012 N Main St
Sikeston, MO 63801
314-471-0330
Miller, William D GP
Hwy 114 W. Box 519
Dexter, MO 63841
314-624-4591
Page, Jesse W IM
1012 N Main St
Sikeston, MD 63801
314-471-0330
Pfefferkorn, David A IM
1012 N Main
Sikeston, MO 63801
314-471-0330
Poole, Anthony G OBG
1012 N. Main
Sikeston, MO 63801
314-471-0330
Rezvani, Laghaieh R
101 Meadowbrook
Sikeston, MO 63801
314-472-2033
Rodriguez, Gregorio L GS
P O Box 394
Charleston, MO 63834
314-683-6066
Sargent, Alden P GP
808 E Wakefield
Sikeston, MO 63801
314-471-4314
Shell, William C GE
1012 N Main
Sikeston, MO 63801
314-471-0330
Thornton, Fred H GS
1012 N Main St
Sikeston, MO 63801
314-471-0330
Walton, J. Douglas FP
1012 N Main
Sikeston, MO 63801
314-471-0330
Waltrip, Roy T FP
307 W Malone
Sikeston, MO 63801
314-471-4510

206—SOUTH CENTRAL (Howell-Oregon-Texas-Wright-Douglas-Ozarks Counties)

Antebi, Morris E
P. O. Box 1007
West Plains, MO 65775
417-256-9111
Barbe, David O FP
600 N. Busch
Mountain Grove, MO 65711
417-926-6111
Bowles, Richard P JR FP
805 Kentucky
West Plains, MO 65775
417-256-2111
Chern, Mou S IM
North of Junctions 5 & 14
P. O. Box 218
Ava, MO 65608
417-683-3511
Choudhury, M. Hasan GP
1330 S.Sam Houston Boulevard
Houston, MO 65483
417-967-4155
Coffee, Amos L GP
P O Box 160
Willow Springs, MD 65793
417-469-3175
Cone, Wm D P
Riverton Rural Branch
Alton, MO 65606
417-256-9282
Dimayuga, Nestor G FP
Mercy Hosp Tri County
Mansfield, MO 65704
417-924-3281
Doherty, Daniel W OPH
1202 Kentucky
West Plains, MD 65775
417-256-4111
Dreyer, Wm F GP
1418 So Hiway 63
Houston, MO 65483
417-967-2232
Duff, William M GS
1337 South Highway 63
Houston, MO 65483
417-967-3365
Fowler, Marvin L FP
805 Kentucky Ave.
West Plains, MD 65775
417-256-2111
Gentry, Marvin C GP
Rural Route 2 Box 4
Ava, MD 65608
Hasek, James A FP
Rt 3 Box 257-A
Mountain Grove, MO 65711
417-926-3155
Hasek, Oliver M GP
600 N Busch Ave
Mountain Grove, MO 65711
417-926-3155
Huffman, Thos L FP
HCR 6 Box 4297
Branson, MD 65616
417-334-2841
Kang, Young M GS
P O Box 725
214 Main St
West Plains, MD 65775
417-256-8161
Mayuga, Laureano G GS
P. O. Box 499C
514 Pine
Cabool, MO 65689
417-962-4255
Moore, Michael R GP
805 Kentucky
West Plains, MO 65775
417-256-2111
Paris, Allen L PTH
802 Cass Ave. PDBox #9
West Plains, MO 65775
417-256-1811
Preston, Bruce E FP
805 Kentucky
West Plains, MO 65775
417-256-2111
Ray, David J U
P.D. Box A
West Plains, MO 65775
417-256-3141
Reddy, Anchala N PUD
2914 Laurie Dr.
West Plains, MO 65775
417-782-3212
Reddy, Nalini A OPH
1434 West Eighth St.
Eighth Street Plaza
West Plains, MO 65775
417-782-2338
Shafer, Kenneth E CD
1115 Alaska Ave., Suite 212
West Plains, MO 65775
417-256-1999
Shaw, Robert D FP
P. D. Box 148
Willow Springs, MO 65793
Smith, Claude F FP
816 East Second St
Willow Springs, MO 65793
417-469-3116
Stafford, Joseph W Jr. PD
1115 Alaska #111
West Plains, MO 65775
417-256-1112
Stubbs, Thomas R GS
709 Kentucky
West Plains, MD 65775
417-256-0056
Tarneja, Kailash C DR
West Plains Mem Hospital
P.O. Box 1007
West Plains, MO 65775

---

* Doctor of osteopathy.

Walker, Ambrose T FP
414 S 6th St
Thayer, MO 65791
417-264-7121
Wall, Joe A GP
107 East Pine
Houston, MO 65483
417-967-3323
Waterson, Karl W D
1434 West 8th St.
West Plains, MO 65775
417-256-8400
Weygandt, Paul L Jr. ORS
805 Kentucky
West Plains, MO 65775
417-256-2115

208—TRI-LAKES (Stone-Taney Counties)

Arunski, David L IM
427 Cahill Rd
Branson, MO 65616
417-334-1134
Chaffin, Jerald D FP
427 Cahill Rd.
Branson, MO 65616
417-334-4117
Crain, James W GS
P.O. Box 280
Branson, MO 65616
417-334-3179
Gillispie, Roy GP
Branson Hgts
Branson, MO 65616
417-334-3179
Gillispie, Roy Jack FP
P.O. Box 1306
Branson, MO 65616
417-334-6455
Greenberg, Benjamin E R
Route 2 Box 1
Forsyth, MO 65653
417-334-3155
Hunsley, Perry U GS
547 N. Business Hwy 65
Branson, MO 65616
417-334-1093
Morrison, Tom V OPH
427 Cahil Rd.
Branson, MO 65616
417-344-0044
Regier, Carl M R
Skaggs Community Hosp
Cahill Rd
Branson, MO 65616
417-334-3155
Shaffer, Lynn R FP
S R 2, Box 458
Branson, MO 65616
417-334-7111
Wonder, Donald GS
547 N. Business Hwy 65
Branson, MO 65616
417-334-1093
Wood, Charles E OBG
HCR 1 Box 169
Hollister, MO 65672
417-334-2224
Zeller, William M FP
P.O. Box 1306
Branson, MO 65616
417-334-6455

210—WEBSTER

Bareis, Robt J FP
Route #1 Box 2645
Marshfield, MO 65706
417-468-2339
Macdonnell, Thos M FP
Route #1 Box 2645
Marshfield, MO 65706
417-468-2339

214—WEST CENTRAL (Bates-Cass-Cedar-St. Clair-Vernon Counties)

Alexander, Sam L GP
Stockton, MO 65785
417-276-5131
417-276-5131
Bird, William F U
800 S. Ash
Nevada, MO 64772
417-667-3355
Carroll, Danny K ORS
17053 S. 71 Highway
Belton, MO 64012
816-322-0688
Dang, Robert C FP
P. O. Box 146
Pleasant Hill, MO 64080
816-987-2111
Ediger, Mark A FP
501 S Lexington
P. O. Box F
Harrisonville, MO 64701
816-884-3272
Frein, Donald E GP
501 S Lexington
Box F
Harrisonville, MO 64701
816-884-3272
Garwood, Jan D FP
900 South Adams
Nevada, MO 64772
417-667-6015
Gehm, Louis E DR
Bates County Hosp
615 Nursery
Butler, MO 64730
816-679-4135
Greenlund, Nelson C FP
Nelson Greenlund Inc.
Rt 4 Box 168
Nevada, MO 64772
417-667-6015
Harms, James F GS
900 S Adams
Nevada, MO 64772
417-667-6015
Haynie, William W GP
706 S. High
Butler, MO 64730
816-679-3118
Horn, Michael J GP
P. O. Box 407
Osceola, MO 64776
417-646-8153
Jones, Edward S FP
7531 W. 93rd St.
Overland Park, KS 66212
Jones, Robert R PD
900 S Adams
Nevada, MO 64772
417-667-6015
Lee, Gerald B CD
706 South High
Butler, MO 64730
816-679-3118
Long, Curtis W GP
200 W. Chestnut
Butler, MO 64730
816-679-4600
Lovinger, Warren C Jr. IM
122 W. Walnut
Nevada, MO 64772
417-667-8484
Ludwig, Lee V GS
Cass Medical Center
Southland Center
Harrisonville, MO 64701
816-887-2218
Lusk, Chas A GP
911 Country Club
Butler, MO 64730
816-679-4473
Magee, Robt L FP
808 S Main St
Eldorado Spring, MO 64744
417-876-4234
Magness, Wm C GP
Nevada Habilitation Center
Nevada, MO 64772
417-667-7833
Magruder, Lyell M GP
Nevada Medical Clinic
900 S. Adams
Nevada, MO 64772
417-667-6015
Moore, Candice A GP
122 W. Walnut
Nevada, MO 64772
417-667-2054
Moore, Michael T DR
800 S. Ash
Nevada, MO 64772
417-667-3355
Morton, Wayne L FP
Box 427
Osceola, MO 64776
417-646-8123
Mou, Bin P
Nevada Habilitation Center.
Nevada, MO 64772
417-667-7833
Pearse, Roy W GP
P.O. Box 1198
Forsyth, MO 65653
Price, Richard C FP
103 S. Oriole Ave.
Harrisonville, MO 64701
816-884-3244
Rabon, Nancy A OBG
900 S. Adams
Nevada, MO 64772
Reed, Glen H GP
Appleton City, MO 64724
816-476-2121
816-476-2121
Rinck, Edward C P
900 S Ash
Nevada, MO 64772
417-667-3142
Scully, Bruce D FP
120 West 4th St.
Appleton City, MO 64724
816-476-2121
Strobach, Robt L GP
706 South High St.
Butler, MO 64730
816-679-3118
Suwanabhand, Chalaw IM
200 West Chestnut
Butler, MO 64730
816-679-3149
Thies, Jerome H FP
Tri-County Clinic
Osceola, MO 64776
417-646-8153
Thompson, Frederick L FP
900 S Adams
Nevada, MO 64772
417-667-6015
Torontow, Raphael J IM
900 S. Adams
Nevada, MO 64772
417-667-6015
Turner, William A GS
900 S. Adams
Nevada, MO 64772
417-667-6015
Van Zanten, Niko A FP
Box 421
Osceola, MO 64776
417-646-8123
VanBiber, Jeffrey M FP
706 S. High
Butler, MO 64730
816-679-3118
Wheeler, Robt L FP
103 S. Oriole Ave.
Harrisonville, MO 64701
816-884-3244

216—ST. LOUIS UNIVERSITY

Jeffrey D. Ager
David A. Appel
Michael D. Barnum
Sherri Barrett
Jeffrey H. Barton
Steven P. Beck
Michael R. Bell
Donald R. Bennett
Ed Bertaccini
Linda G. Bick
William J. Blanke
Teresa M. Blase
Michael E. Blatner
Cecelia R. Blawie
Arlene D. Bradley
Mark Burnes
Brian Candell
Jenifer M. Cannon
Miguel E. Cannon
Sybil Cartmell
Bruce R. Chandler
Chris Conlin
Dennis Crandall
Douglas M. Creel
Steven W. Cummings
Dana P. Damron
Alfred L. Daniels II
David G. Davenport
Brian R. Davis
Richard V. Davis
Jayshree B. Desai
Martin A. Docherty
Michael Donahoe
Paul S. Dudrick
Sara Ehlke-Bejcek
Elizabeth Engel
Delbert T. Escher Jr.
Samuel J. Essma
Andrew J. Evanger
Thomas E. Fagan
Guy W. Felder
Kerry S. Fisher
Cheryl Y. Fleischman
Tom Fleming
Daniel E. Frederick
Kent J. Funk

---

* Doctor of osteopathy.

Richard S. Gahn
Corrine M. Gallagher
Jacqueline M. Garrard
John H. Geerling
Abby Gerson
Sanjay Ghosh
Mark Ginkel
Susan Glaser
Lehman W. Godwin
William N. Gonser
Scott A. Goodson
Anita K. Gregroy
Brian D. Grogan
Daniel R. Gruenberg
Jacquelyn Hall
Barry Handler
Mitchell W. Hecht
Peter C. Hentzen
Keith L. Hiatt
Tim N. Hickman
Gregory A. Hill
Greg Holdener
Liza Icayan
Stefan Iorga
Samuel A. Irefin
John W. Jaurequito
Finn J. Joehnk
Phillip K. Kay
Richard L. Kiefer
Michael Kiernan
Don O. Kikkawa
Andrew J. Koropey
John J. Kownacki
Sarah Kuhl
Han Ahng KO
Kris M. Lahren
Walter J. Lawrence
Thomas W. Lebert II
John K. Lees
George A. Leimbach
Mingsang Lin
Benjamin Liong
Mark Littlehale
John Lolie
Lewis Low
Lisa Lupo
Peter A. Marco
Mary C. Maton
Mavis Matsumoto
Carole Matteri
Mark E. Merriman
Gretchen Meyer
Trudy A. Mikhail
Kenneth T. Minami
Kevin T. Minnihan
John G. Muller
Thomas A. Neal
Peter G. Noordsij
Mark R. Norwid
Tedmond O'Reilly
Lorna L. O'Young
Paul A. Oberle
Gregory M. Oetting
Michael J. Palchak
John Pantano
Roger Paro
J. Brent Pawlecki
Elizabeth E. Payne
Michael J. Pearce
Kim A. Porterfield
Henry Raymundo
Vinay N. Reddy
Donald A. Reinke
Steven Ritter
Michael Roach
Donna Robey
Anthony A. Romeo
Joe Romeo
Bradley J. Roth
Donna Roth
Peter M. Rumbolo
Gregory R. Saboeiro
Dan J. Satterwhite
Margaret A. Schmandt
Joseph Schmoker
Jamie K. Scott
Daniel S. Seid
Kevin Shady
Kenda Shippee
Louise A. Sieben
Juliann M. Smith
Christopher M. Speidel
Joseph L. Staggenborg
James J. Steigerwald
Steven R. Steinhubl
Jeanne W. Sticht JR
Christian Swanson
Bernard J. Szopa
Charles Tadros
Paula Termuhlen
Nickolas A. Tomasic
Kathy A. Trumbull
Jimmy W. Turnage
Thomas A. Tyree
Wilbur D. Van Buren
John M. Vassallo
Timothy E. Vierling
Matthew F. Vogel
Jeff Wadley
Robert W. Weber
Phillip R. Wells
Margaret Wessels
Andrew Weymer
Tracy G. Williams
Catherine Wittgen
Joseph H. L. Worischeck
Eric E. Young
Larry Yu
Paul B. Zanaboni
Sister Charlene Zeisset

218—UNIVERSITY OF MISSOURI-COLUMBIA

Charlene Adkins
Julie A. Alford
Christopher R. Andrew
Janet Sue Baxter
Karen Bay
James R. Biddle
Dean D. Blakeley
Jimmy D. Bowen
Mark S. Box
Jeffrey A. Bredemann
James E. Bryan
Michael L. Burks
William A. Cass
Faye C. Cohen
J. Dewey Cooper
V. Kent Cooper
Mark R. Corkins
James G. Corwin
Steven H. Dewey
Gary DuMonteer
Roy J. Elfrink
Thomas F. Essman
Bruce W. Faerber
Chris Felling
Michelle M. Ferrari
Robia A. Fields
Karen M. Gehrs
David E. Gerdt
Jeffrey S. Glaser
Carl G. Gold
Kendall Graven
Stacey Grey
Craig P. Griebel
Victor E. Grigoryev
Rebecca Haefner
Phyllis E. Hager
Linda A. Harrison
Ellen M. Hartenbach
Curtis L. Hedberg
Todd Alexander Horwitz
Jeff Jenkins
Denise A. Johnson
Lawrence M. Katz
George M. Kichura
Michael B. Koeplin
Roy Kohler
Lisa Kolb-Waggoner
Steve Kory
Tom Levin
Glynda V. Maxam
Robert J. McDonald
D. Joseph Meyer Jr.
Kevin G. Moder
David Moreton
Kenneth W. Neu
Russell J. Otto
Terrance A. Otto
Katherine E. Parkinson
Jeffrey L. Patrick
Robert M. Post
Julie L. Reihsen
Linda Richardson
Ron Richmond
Randal D. Robinson
William E. Roland
Ed Rosenthal
John J. Russell
John Saunders
Ralph A. Schmitz
Catherine A. Schnell
Robert E. Schroeder
Philip Severin III
David M. Sherman
Jeffrey L. Shore
Karen Sistrunk-Brown
William Slattery
Larry Slaughter
George A. Stephen
Julaine Stiers
Paul R. Stricker
James Sylvester
Jeffrey R. Tedrow
Raghu P. Terkonda
Deborah G. Thomas
Michael J. Thompson
Orin P. Trentham III
Julio D. Vallette Jr.
Jonathan Valuck
Marc Vanderslice
Kelvin Walls
Leo C. Warren
Robert J. Weil
John K. Williams
Matthew Wood
Sandra L. Zinn

220—UNIVERSITY OF MISSOURI-KANSAS CITY

Ann C. Agnew
Timothy Albers
Michael J. Bamshad
James R. Batterson Jr.
Marjorie M. Beebe
Karen A. Beis
Keith Bernstein
Sherry E. Branum
Richard J. Brooks
Dale R. Broome
Randy G. Brown
Lisa L. Buchheit
Barbara A. Bumberry
John R. Bumberry
James S. Burke Jr.
Sandy Burns
Susan H. Carney
Terrence W. Carver
Christina M. Casteel
Mario Castro
Elaine Z. Charles
Alice H. Chou
Dawna Clarkston
Calvin D. Cochran
Douglas A. Coe
Cliff Cokingtin
Kevin A. Coleman
Brian Collins
William D. DePond
Shari Dobkin
Jose M. Dominguez
Linda Drown
Gerianne E. Dudley
Nancy E. Ebbesmeyer
Scot W. Ebbinghaus
Eve M. Eidel
Robert J. Ellis
Martin P. Emert
Thomas H. Faerber
Elizabeth P. Ford
Lane C. Foster
Leigh A. Fredholm
Mark E. Freeman
Brad L. Freilich
Grant Gerner
Stephanie Gillard
Patrick D. Griffith
Giacomo L. Guccione
Cassing Hammond
Steven C. Hannah
Lori A. Hermandorfer
Satchi J. Hiremath
Douglas E. Homoky
Jennifer Horrell
Michael R.K. Jacoby
Eric A. Kalhoefer
Dave Kapp
Sunil Khanna
Joo Hoon Kim
Debra J. Klearman
Michael W. Knudsen
Tommy Khiong Ko
Edward Koo
Kathryn Lane
Jacqueline M. Levy
Doug Linville
Ray R. Mahoubi
Dee Anna Main
Scott W. McCulloch
Shawn C. Merys
Alan B. Miller
Stephanie A. Miller
Kathleen T. Mitchell
John C. Moad
Michael Monaco
Sandra A. Onder
Gurpreet S. Padda
Eric J. Pappert
John R. Parker
Michael F. Perll
Carrie Phillips
John K. Phillips
Thomas A. Rebori
Michael J. Reilly
William R. Reynolds
John L. Ritter
Michelle R. Rumpf
Janice L. Ryan
Felix N. Sabates Jr.
Susan Savulak
Mark Scheperle
Joel N. Schroeder
Chad P. Shaffer
Hui H. Shu
Carla J. Siegfried

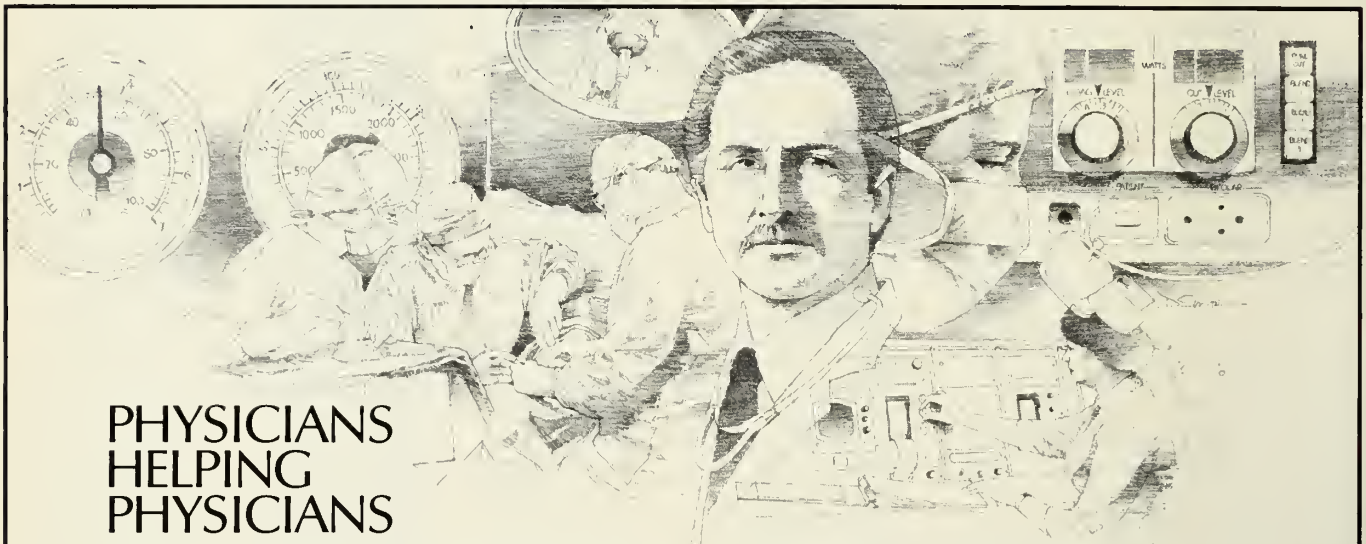
---

* Doctor of osteopathy

Sareeta Singh
Joe E. Snodgrass
Charisse A. Soracco
Tony Spaedy
Janice M. Spears
Michael Steenbergen
Tracy L. Stevens
Donald K. Strickland
G. Andrew Sulit
Belinda Sun
Nasreen A. Syed
Albert C. Tang
Michael Temporal
James E. Thomas
R. Dent Underwood
Suzanne H. Wegener
Christopher J. Westerheide
Coleman H. Wheeler

222—WASHINGTON UNIVERSITY

Brian A. Armstrong
William L. Becker
Phyllis K. Brundidge
Carlos Buznego
Stephen P. Cragle
Janet Cranshaw-Mink
Brian D. Dodson
Patrick J. Hanaway
Michael E. Joyce
Martin M. Matzuk
Robert McMahon
Elizabeth Puscheck
Pejman Salimpour
Patrick Sandiford
Evan K. Saunders
Norman D. Schmidt
Edwin K. Silverman
Peter L. Smith
Robert W. Tolan Jr.
Thomas E. Vaughan
Yasmira I. Watson
Eden Wheeler
Rachel Wheeler
Rodney K. Woerther
Nadia Wolkow-Krupnikova
Susan L. Yazdi
Andrew Zimmerman



PHYSICIANS
HELPING
PHYSICIANS

Risk Control Associates is more than just a service for physicians; we are an insurance company established, owned, and managed BY physicians. Consequently, RCA is committed to providing a strong, solid posture in claims defense and the highest quality coverage at competitive rates.

We know your needs through our own experience. Part of RCA answering your needs is the Risk Management Program. The principles and procedures of Risk Management have been carefully developed by physicians, clinic managers, lawyers, and insurance people experienced in the medical field.

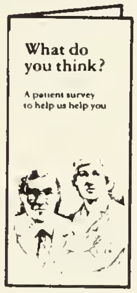
For competitive quotations on your professional liability, call us, (417) 862-0650.

RISK CONTROL
ASSOCIATES, INC.
MEDICAL LIABILITY INSURORS
1111 S. Glenstone Springfield, MO 65804
MISSOURI CHAPTER 383 COMPANY

An Invitation . . .

The Editorial Board of *Missouri Medicine* invites the members of the Missouri State Medical Association to submit examples of their art work for publication on the cover of *Missouri Medicine*. Color photographs, preferably transparencies, as well as photographs of paintings, drawings, sculpture, ceramics, jewelry, etc. are all welcome. There is no limit as to subject, although pictures of Missouri or subjects topical to a month or season may have a slight advantage. Please submit entries to "Cover," *Missouri Medicine*, P.O. Box 1028, Jefferson City, MO 65102.

How do you rate?


What do you think?
A patient survey to help us help you

How do your patients view your practice, your office staff and routines, your appointment scheduling?

The MSMA's Patient Survey Brochure is a small, concise, yet useful survey you can enclose with patient billings or place with waiting room reading material. The opinions your patients can provide may help you make definite practice-building decisions.

Available from **MSMA Communications, P.O. Box 1028, Jefferson City, MO 65102**
Cost: 10¢ each, or write for a free sample copy.

MEDICINE'S CHANGING ENVIRONMENT

Gateway '87
Medical Exposition & Symposium
November 11 & 12, 1987

CERVANTES CONVENTION CENTER
St. Louis, Missouri

Sponsored by the St. Louis Metropolitan Medical Society

For more information, contact: Robert Donnell Productions 1-800-243-9774

Information for Contributors

Articles are accepted for publication on condition that they are contributed solely to this journal. Material appearing in Missouri Medicine is protected by copyright.

Manuscripts should be submitted to the editor, Jordan W. Burkey, M.D., P.O. Box 1028, 113 Madison, Jefferson City, Mo. 65102. The transmittal letter should designate one author as correspondent and include his address and telephone number.

In addition, in view of *The Copyright Revision Act of 1976*, effective Jan. 1, 1978, transmittal letters to the editor should contain the following language: "In consideration of the Missouri State Medical Association's taking action in reviewing and editing my submission, the author(s) undersigned hereby transfers, assigns or otherwise conveys all copyright ownership to the MSMA in the event that such work is published by the MSMA." We regret that transmittal letters not containing the foregoing language signed by all authors of the submission will necessitate delay in review of the manuscript. Please include the title of the article in the transmittal letter.

Manuscripts

Manuscripts should be typewritten, double spaced, and the original with one copy submitted. Retain another copy for proofreading. Please number the pages of your manuscript. Manuscripts are not returned. Hospital and University appointments of the author(s) should accompany the manuscript. A synopsis-abstract of no more than 75 words should accompany the manuscript.

References

References should be cited in numerical order in the text and arranged at the end of the article in the same order in which they are cited. The reference should give name of author, title of article, name of periodical, volume number, initial page number and year. Authors are responsible for reference accuracy.

Illustrations

Illustrations should be glossy prints or drawings in India ink on white paper. They should not be mounted and name of author and figure number should be penciled lightly on the back. Legends should appear on a separate sheet.

Legal difficulties may arise from unauthorized use of names, initials or photographs in which individuals can be identified. Permission should be secured from patient or legal guardian and signed duplicate or photostat submitted with such photographs or identification. The Editor and Editorial Board assume no responsibility for the opinions and claims expressed in articles contributed by authors. If citation of an institution related to the article is made, approval of the chief of service should be given in a letter accompanying the article.

Reprints

Reprint order blanks will accompany proof, which will be sent to authors prior to publication.

Editorials

Editorials should be written in clear, concise language. Length should be about two or three pages typed with double spacing.

Letters

Letters will be published at the discretion of the editor, managing editor, and Editorial Board.

Deadline

All material other than scientific should be received prior to the first of the month preceding month of publication.

Index to Advertisers

Ayerst Labs **406A-D**

Army National Guard **435**

D.O.C., Inc. **407**

E. F. Hutton **416**

Eli Lilly **438B**

Forrest T. Jones **434**

Fred S. James **406**

General American/Medicare Part B **414**

Glaxo/Roche **430B-D**

Goetze-Niemer **413**

Insurance Corporation of America **400**

MED CAT **424**

Medical Defense Associates **402**

Medical Protective Company **413**

Mid-America Computing **431**

MOMEDICO **398**

Naval Reserves **418**

Omaha Mid-West Clinical Society **556**

Risk Control Associates **553**

Roche Laboratories **433, 437, 559, 560**

The Shealy Institute **415**

Smith Kline & French **430A**

Spectrum Emergency Care **558**

SSM Rehabilitation **418**

United Missouri Banks **438**

The Upjohn Company **438A**

Wes Woodbury **436**

Continuing Medical Education

The continuing medical education accreditation program of the MSMA has full approval by the AMA's Council on Medical Education. The institutions and functions listed here qualify for Category I credit for the AMA Physician's Recognition Award. All accredited institutions in Missouri are invited to send this information for listing in MISSOURI MEDICINE. Please remember to include the name of the individual who can be contacted at your institution for additional information about your CME events.

August

27-28 Developing and Implementing Medical and Legal Procedures for the Treatment of Terminally Ill Patients — Location: Omni Hotel, St. Louis, MO 63103. Contact: Christopher Janku, The Missouri Bar, Jefferson City, MO 65102. 314/635-4128.

September

2-3 Advanced Cardiac Life Support Provider Course — Location: Francisco Lounge, Student Center, University of Kansas Medical Center. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

4 A Focus on Rural Health Care — Location: Adam's Mark of Kansas City. Contact: The Ed Bixby Institute, Research Medical Center, 2316 East Meyer Blvd., Kansas City, MO 64132. 800/892-5771, ext. 4306.

9 Sixteenth Annual Wendell G. Scott Lecture — Location: Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, MO. Contact: Ronald G. Evans, M.D., Director, Mallinckrodt Institute of Radiology, 510 South Kingshighway, St. Louis, MO 63110. 314/362-7100.

19 "Second Annual One-Day Anesthesia Symposium" — Location: Christian Hospital Northeast, St. Louis. Contact: Christian Hospital Anesthesia Department, 113 Dunn Road, St. Louis, MO 63110. 314/355-2300, ext. 5022.

25 Nutrition Concerns for Women: A Symposium for Health Professionals — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

25 "Eleventh Annual Symposium on Medical and Surgical Treatment of Arthritis" — Location: Sheraton Inn, Springfield, MO. Contact: James E. Thompson, Jr., Executive Director, Greene County Medical Society, 1200 E. Woodhurst D-200, Springfield, MO 65804 417/887-1017.

25-27 Missouri Thoracic Society Ozark Chest Conference VII: Infectious Disease and Asthma — Location: Tan-Tar-A Resort Hotel, Lake Ozark, MO. Contact: Sheldon R. Braun, M.D., University of Missouri Hospital and Clinics, Room MA 419, Division of Pulmonary and Critical Care Medicine, Columbia, MO 65212. 314/882-2991. May also contact the American Lung Association of Eastern Missouri (St. Louis) or Western Missouri (Kansas City).

29-30 Cancer and Aging — Location: Clarion Hotel, St. Louis. Contact: Cheryl Mason, Symposium Secretary, VA Medical Center, GRECC (111G-JB), St. Louis, MO 63125. 314/894-4659.

October

3-4 Infectious Disease Update 1987 — Location: Tan-Tar-A, Osage Beach, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

6 "Application of Color For Doppler Imaging" — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd., St. Louis, MO 63110. 314/362-7130.

9-10 Allergy, Immunology and Rheumatology: Review and Update — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

9-10 30th Annual Physician Alumni Weekend — Location: UMC School of Medicine, MA217 CME Auditorium, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

15-25 **Allergy Abroad** — Locations: Stockholm, Copenhagen, London. Contact: Loretta Giacoletto, Washington University School of Medicine, Box 8063, 660 S. Euclid, St. Louis, MO 63110. 314/362-6893.

17 **Rheumatology Former Fellows Conference** — Location: Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

20-21 **Medicine and Religion: Issues in the Eighties** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

22-23 **Chronic Obstructive Pulmonary Disease Update** — Location: Holiday Inn Executive Center, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

November

5-7 **Annual Fall Clinical Conference** — Location: Alameda Plaza Hotel, Kansas City, MO. Contact: Linda F. Smutz, Executive Director, Kansas City Southwest Clinical Society, 222 West Gregory, Kansas City, MO 64114. 816/523-3383.

7 **Rheumatology Update** — Location: Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

10 **"Frontiers in Interventional Radiology"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

13-15 **14th Annual Symposium: Anesthesia and the Geriatric Patient** — Location: The Marriott Pavilion Hotel, One Broadway, St. Louis, MO. Contact: Geriatric Symposium, Department of Anesthesiology, Box 8054, Washington University School of Medicine, 660 S. Euclid Avenue, St. Louis, MO 63110. 314/362-6973.

18-20 **Clinical Advances In Pediatrics: A Postgraduate Course** — Location: Children's Mercy Hospital, Kansas City, MO. Contact: Kurt Metzl, M.D., Course Director, Menorah Medical Center, 4949 Rockhill Road, Kansas City, MO 64110. 816/276-8825.

December

7-8 **33rd Annual Urology Seminar** — Location: Hyatt Regency Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

8 **"MRI of the Knee — 3,000 Cases"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

Omaha Mid-West
Clinical Society

55th Annual
Postgraduate Assembly

October 26, 27 and 28, 1987

Red Lion Inn
Omaha, Nebraska

For Information Contact

Lorraine Seibel
Omaha Mid-West Clinical Society
7363 Pacific Street, Suite 205-B
Omaha, Nebraska 68114
(402) 397-1443

Classifieds

CLASSIFIED ADVERTISING INFORMATION

Rates: $15 per insertion for 50 words or less for members and $25 per insertion for 50 words or less for nonmembers, with an additional 25¢ per word in excess of 50.

Copy Deadline: Copy due by the first of the month prior to month of publication. Send to MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City 65102.

Word Count: Count as one word all single words, two initials of a name, each abbreviation, isolated numbers, groups of numbers, hyphenated words. Count file numbers as five words.

File Numbers — Advertisers using file numbers forbid disclosure of their identity. Written inquiries are forwarded to such advertisers. To assure prompt delivery when replying to an advertisement with a Journal file number, address letters as follows: File (insert number), c/o Missouri State Medical Association, P.O. Box 1028, Jefferson City, Mo. 65102.

All advertisements are subject to approval by the Editorial Board prior to acceptance.

Physicians Wanted

Emergency Medicine: Our 264-bed regional medical center is seeking an emergency physician who is preferably board certified/prepared. We offer the chance to practice in a newly-built Level II trauma center and remodeled ED department with 12,000 patient visits/year. Highly competitive salary and benefits package greater than 100k. Cape Girardeau, university city of 40,000, is the largest center for health care, retail trade, cultural activities, and entertainment between St. Louis and Memphis. Excellent school systems and superb recreational activities are available. Send CV to David Trantham, M.D., FACEP, 3201 Lakewood, Cape Girardeau, MO 63701; or call 314/651-6110.

Internist BC/BE with or without subspecialty to join five-physician single specialty group practice in S.W. Missouri serving a population of 1,000,000+. Excellent opportunity with competitive salary guaranteed plus incentive bonus. Malpractice and excellent benefits paid; opportunity for ownership. Pleasant recreational environment in the Ozarks. Please call or mail CV to Administrator, The Diagnostic Clinic, 3443 South National, Springfield, MO 65807. 417/883-3443.

Internist, BC/BE, U.S. Trained. Needed to join four-physician practice. $9,000 per month salary, possible bonus, plus full benefits. Full partnership available. Located one hour from Memphis, Tennessee, on I-55. Send CV to: Merrill J. Osborne, M.D., Tenth and Highland Streets, Blytheville, Arkansas 72315 or call 501/762-5360.

Family physicians with 3-10 years of private practice experience wanted to join the professional staff of two Kansas City area primary care offices. Candidates should have an exemplary record in clinical practice and be self-motivated to work in expansion-oriented practices. Please call Health Resources, Ltd., 816/587-0920.

One Psychiatrist — needed to complement a team of dynamic psychiatrists and general physicians. Located 65 miles south of St. Louis on Highway 67, our hospital has 318 beds. We are looking for Board Certified or Eligible specialists. Remuneration will range from $67,000 up, depending on years of experience, Board Certification and optional on-call days. Fringe benefits come to an additional 35% of the salary which includes vacation time, sick time, CME allowance, health insurance and life insurance. For detailed information, please write to: Adolph J. Herath, M.D., Medical Director, Farmington State Hospital, Farmington, MO 63640 or call 314/756-6792, extension 347.

Emergency Medicine in IL and MO — Full and part-time positions available in emergency departments and clinics for qualified physicians seeking lucrative employment opportunities. Outstanding remuneration and comprehensive malpractice insurance provided. For further information contact: Deborah Bergun, staffing specialist. National Emergency Services, Inc., 255 Executive Dr., Suite 104, Plainview, NY 11803 or call 1-800-645-4848 or 516/349-0100.

OB/GYN Family Practitioner Wanted — To join 14-physician multi-specialty group. Must be Board certified or Board eligible. Competitive salary and excellent fringe benefits. Send CV reply to Medical Arts Clinic, Inc., 301 W. Liberty, Farmington, MO 63640. Attention: Ronald G. Stevens, Administrator. Or call 314/756-6751.

Housestaff physician needed immediately. Christian Hospital, a 728-bed acute care facility located in suburban north St. Louis County, is seeking an ABIM-certified or eligible physician with a good background in Intensive Care Medicine to provide medical coverage for our acute Medical Care Unit and Progressive Care Unit. The physician must be proficient in placement of central lines, tracheal intubation, and all aspects of advanced life support. Also, good understanding of hemodynamics required. Christian Hospital offers an excellent salary and benefit package, including payment of professional dues, continuing education, relocation assistance and malpractice insurance. To apply, send your curriculum vitae in confidence to or call collect: Dr. Lesley Hanson, Christian Hospital Northeast/Northwest, 11133 Dunn Road, St. Louis, MO 63136. 314/355-2300. E.O.E. M/F/H.

Pediatrician, Radiologist, Orthopedic Surgeon, Family Practice, OB/GYN, General Internist & ENT — needed for two-hospital, historic river town of 20,000. Drawing area of approximately 60,000 with new 19,000 acre recreational lake. Unlimited potential. Contact: Carol Neil, Physician Recruitment, 623 Broadway, Hannibal, MO 63401 or call 314/221-3107.

Critical Care Physician needed immediately and in July of 1988. Christian Hospital, a 728-bed acute care facility located in suburban north St. Louis County, is seeking a Critical Care physician to staff its expanding Intensive Care Units. The ideal candidate should be Board Certified in Internal Medicine and Board Eligible in CCM, Cardiology or Pulmonary Medicine. We treat over 1600 patients per year in our I.C.U., including patients from our open heart surgery area. Christian Hospital offers an excellent salary and benefit package, including payment of professional dues, continuing education, relocation

Physicians Wanted

assistance and malpractice insurance. To apply, send your curriculum vitae in confidence to or call collect: Daniel W. Brewer, Corporate Manager of Executive Employment, Christian Hospital Northeast/Northwest, 11133 Dunn Road, St. Louis, MO 63136. 314/355-2300, ext. 5543. E.O.E. M/F/H.

Emergency Room Physician. Christian Hospital, a progressive 728-bed acute care facility, is seeking two (2) full-time emergency room physicians to join our emergency department. Our emergency department sees over 65,000 cases per year and is the trauma center for the North St. Louis County. The ideal candidate will be well-trained in emergency medicine and possess 1-2 years emergency department experience. We offer an excellent salary which is complimented by an outstanding benefit package. If this challenging opportunity is of interest to you, please apply in confidence to or call collect: Daniel W. Brewer, Corporate Manager of Executive Employment, Christian Hospital Northeast/Northwest, 11133 Dunn Road, St. Louis, MO 63136. 314/355-2300, ext 5543. E.O.E. M/F/H.

Urologist — VA Medical Center, Lincoln, Nebraska. Seeking board certified or board eligible urologist for progressive affiliated 180-bed Medical Center. Center is affiliated with University of Nebraska for urology residency program. Salary and bonus pay commensurate with training and experience. Licensure any state. Must meet English proficiency requirement. Allowable moving expenses payable. Write or call: Chief, Surgical Service, VA Medical Center, 600 South 70th Street, Lincoln, NE 68510. 402/489-3802. Equal Opportunity Employer.

Healthline Physician Services, an affiliate of St. Louis University Medical Center, has part-time and full-time opportunities available for physicians in Emergency Department, Clinic, and Locum Tenens work. We are presently recruiting for emergency departments in St. Louis city and metropolitan area. Excellent compensation, flexible schedules, administrative opportunities and benefits, no "on-call" responsibilities and a challenging medical environment. If you are just starting out, looking for a career change, or want to supplement your income from another source please contact: Barry Trautman, Healthline Physician Services, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Full-Time Private Practice Opportunities from Healthline Physician Services, an affiliate of St. Louis University Medical Center, for the following specialties: Board Eligible or Board Certified Internal Medicine, and Board Certified Family Practice, Pediatrics and OB-GYN. Positions include income guarantee and no capital investment. For more information contact: Barry Trautman, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Practices for Sale

Rheumatology practice for sale. — St. Louis. In practice 33 years. Retiring. Purchase price payable over 3 years. Will introduce. Letters of inquiry with CV to File #1, c/o Missouri Medicine, 113 Madison, P.O. Box 1028, Jefferson City, MO 65102.

Private Practice Opportunities: Family Practice and Internal Medicine, no cash outlay, attractive salary, excellent incentive compensation, liberal benefits including malpractice. Prospective for OB/GYN, Pediatrics, Psychiatry. Send C.V. to Don Hoit, Farris & Associates, Inc., 16216 Baxter Road, Suite 200, Chesterfield, MO 63017 (314) 532-4880.

Positions Wanted

Position wanted. Board Certified Cardiologist (internist) Invasive — Non Invasive, Missouri licensed, wishes to join group, hospital, industry, company, etc. Reply to Box No. 8, c/o MSMA, P.O. Box 1028, Jefferson City, MO 65102.

Practice Wanted

Board certified psychiatrist wants to buy a psychiatric practice in St. Louis Metropolitan area. Please reply c/o Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102, File #10.

Equipment for Sale

Office phone system (Southwestern Bell Electra). Six phones and built in intercom. Will handle six separate phone lines. Built in speaker phone, speed dialing and conference calling. Original cost $4,000.00. Will sell for $1750.00. This is quality equipment. Call Bill Steffen 913/888-2502.

Career Opportunities in Emergency Medicine

Medical directorships and full-time staff positions are currently available *throughout Missouri.* Choose hospital emergency department or urgent care setting.

- **St. Louis and surrounding communities**
- **Excelsior Springs**
- **Jefferson City**

Guaranteed competitive rate of reimbursement, occurrence malpractice insurance coverage and CME allowance.

Part-time opportunities are also available.

For information on opportunities available throughout Missouri, contact:

Bill Salmo
Spectrum Emergency Care, Inc.
P.O. Box 27352
St. Louis, MO 63141
1-800-325-3982 314-878-2280

In acute and chronic edema due to CHF

FOR PREDICTABLE CONTROL

- **Less potassium loss for a given amount of sodium excretion than with furosemide[1-3]**
- **Predictable dose response[4]**
- **Diuresis completed hours faster than with furosemide after oral dosing[5]**
- **Better GI absorption[6,7]**
- **Early evening dosing helps prevent nocturnal dyspnea**

1 mg / 4 ml
BUMEX
(bumetanide)
For I.V. or I.M. Use
0.5 mg/2 ml
BUMEX
(bumetanide)
0.25 mg per ml
For I.V. or I.M. Use
BUMEX 2
ROCHE
BUMEX 1

As with all loop diuretics, excessive doses of BUMEX can lead to profound diuresis with water and electrolyte depletion, including hypokalemia, so serum electrolytes should be monitored.

Bumex®
bumetanide/Roche
0.5-mg, 1-mg and 2-mg scored tablets; 2-ml ampuls and 2-ml, 4-ml and 10-ml vials (0.25 mg/ml)

References: 1. Flamenbaum W *Am J Cardiol 57*(2):38A-43A, 1986 **2.** Brater DC, Fox WR, Chennavasin P *J Clin Pharmacol 21*.599-603, 1981 **3.** Iber FL, Baum RA *J Clin Pharmacol 21* 697-700, 1981. **4.** Henning R, Lundvall O *Eur J Clin Pharmacol 6*.224-227, 1973 **5.** Physicians' Desk Reference, 40th ed Oradell, NJ, Medical Economics Company, 1986, pp 939, 1480 **6.** Pentikainen PJ, *et al Br J Clin Pharmacol 4* 39-44, 1977 **7.** *Losix, A Review* Somerville, NJ, Hoechst-Roussel Pharmaceuticals, Inc , 1980

BUMEX®
(bumetanide/Roche)
0.5-mg, 1-mg and 2-mg scored tablets
2-ml ampuls, 2-ml, 4-ml and
10-ml vials (0.25 mg/ml)
Before prescribing, please consult complete product information, a summary of which follows:

WARNING: Bumex (bumetanide/Roche) is a potent diuretic which, if given in excessive amounts, can lead to a profound diuresis with water and electrolyte depletion. Therefore, careful medical supervision is required, and dose and dosage schedule have to be adjusted to the individual patient's needs. (See under DOSAGE AND ADMINISTRATION in complete product information.)

INDICATIONS AND USAGE: Edema associated with congestive heart failure, hepatic and renal disease, including the nephrotic syndrome
Almost equal diuretic response occurs after oral and parenteral administration of Bumex If impaired gastrointestinal absorption is suspected or oral administration is not practical, Bumex should be given by the intramuscular or intravenous route
Successful treatment with Bumex following instances of allergic reactions to furosemide suggests a lack of cross-sensitivity
CONTRAINDICATIONS: Anuria Hypersensitivity and in patients in hepatic coma or in states of severe electrolyte depletion Although Bumex can be used to induce diuresis in renal insufficiency, any marked increase in blood urea nitrogen or creatinine, or the development of oliguria during therapy of patients with progressive renal disease, is an indication for discontinuation of treatment
WARNINGS: Dose should be adjusted to patient's needs Excessive doses or too frequent administration can lead to profound water loss, electrolyte depletion, dehydration, reduction in blood volume and circulatory collapse with the possibility of vascular thrombosis and embolism, particularly in elderly patients.
Prevention of hypokalemia requires particular attention in patients receiving digitalis and diuretics for congestive heart failure, hepatic cirrhosis and ascites, states of aldosterone excess with normal renal function, potassium-losing nephropathy, certain diarrheal states, or other states where hypokalemia is thought to represent particular added risk to the patients
In patients with hepatic cirrhosis and ascites, sudden alterations of electrolyte balance may precipitate hepatic encephalopathy and coma. Treatment in such patients is best initiated in the hospital with small doses and careful monitoring of the patient's clinical status and electrolyte balance Supplemental potassium and/or spironolactone may prevent hypokalemia and metabolic alkalosis in these patients
In cats, dogs and guinea pigs, Bumex has been shown to produce ototoxicity Since Bumex is about 40 to 60 times as potent as furosemide, it is anticipated that blood levels necessary to produce ototoxicity will rarely be achieved The potential for ototoxicity increases with intravenous therapy, especially at high doses
Patients allergic to sulfonamides may show hypersensitivity to Bumex
PRECAUTIONS: Measure serum potassium periodically and add potassium supplements or potassium-sparing diuretics, if necessary Periodic determinations of other electrolytes are advised in patients treated with high doses or for prolonged periods, particularly in those on low salt diets
Hyperuricemia may occur Reversible elevations of the BUN and creatinine may occur, especially with dehydration and in patients with renal insufficiency Bumex may increase urinary calcium excretion
Possibility of effect on glucose metabolism exists Periodic determinations of blood sugar should be done, particularly in patients with diabetes or suspected latent diabetes
Patients should be observed regularly for possible occurrence of blood dyscrasias, liver damage or idiosyncratic reactions
Especially in presence of impaired renal function, use of parenterally administered Bumex should be avoided in patients to whom aminoglycoside antibiotics are also being given, except in life-threatening conditions
Drugs with nephrotoxic potential and bumetanide should not be administered simultaneously
Since lithium reduces renal clearance and adds a high risk of lithium toxicity, it should not be given with diuretics
Probenecid should not be administered concurrently with Bumex
Concurrent therapy with indomethacin not recommended
Bumex may potentiate the effects of antihypertensive drugs, necessitating reduction in dosage
Interaction studies in humans have shown no effect on digoxin blood levels.
Interaction studies in humans have shown Bumex to have no effect on warfarin metabolism or on plasma prothrombin activity
Pregnancy Bumex should be given to a pregnant woman only if the potential benefit justifies the potential risk to the fetus
Bumetanide may be excreted in breast milk
Pediatric Use Safety and effectiveness below age 18 not established
ADVERSE REACTIONS: Muscle cramps, dizziness, hypotension, headache and nausea, and encephalopathy (in patients with preexisting liver disease)
Less frequent clinical adverse reactions are weakness, impaired hearing, rash, pruritus, hives, electrocardiogram changes, abdominal pain, arthritic pain, musculoskeletal pain and vomiting
Other clinical adverse reactions are vertigo, chest pain, ear discomfort, fatigue, dehydration, sweating, hyperventilation, dry mouth, upset stomach, renal failure, asterixis, itching, nipple tenderness, diarrhea, premature ejaculation and difficulty maintaining an erection
Laboratory abnormalities reported are hyperuricemia, azotemia, hyperglycemia, increased serum creatinine, hypochloremia, hypokalemia, hyponatremia, and variations in CO_2 content, bicarbonate, phosphorus and calcium Although manifestations of the pharmacologic action of Bumex, these conditions may become more pronounced by intensive therapy
Diuresis induced by Bumex may also rarely be accompanied by changes in LDH, total serum bilirubin, serum proteins, SGOT, SGPT, alkaline phosphatase, cholesterol, creatinine clearance, deviations in hemoglobin, prothrombin time, hematocrit, platelet counts and differential counts Increases in urinary glucose and urinary protein have also been seen
DOSAGE AND ADMINISTRATION:
Oral Administration The usual total daily dosage is 0 5 to 2 0 mg and in most patients is given as a single dose
Parenteral Administration. Administer to patients (IV or IM) with GI absorption problem or who cannot take oral The usual initial dose is 0 5 to 1 mg given over 1 to 2 minutes If insufficient response, a second or third dose may be given at 2 to 3 hour intervals up to a maximum of 10 mg a day
HOW SUPPLIED: *Tablets,* 0 5 mg (light green), 1 mg (yellow) and 2 mg (peach), bottles of 100 and 500, Prescription Paks of 30, Tel-E-Dose® cartons of 100 Imprint on tablets 0 5 mg—ROCHE BUMEX 0 5, 1 mg—ROCHE BUMEX 1, 2 mg—ROCHE BUMEX 2
Ampuls, 2 ml, 0 25 mg/ml, boxes of ten
Vials, 2 ml, 4 ml and 10 ml, 0 25 mg/ml, boxes of ten

P I 0985

Roche Laboratories
a division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

Medic-3
DEFIBRILLATOR

FRANCIS COUNTWAY LIB OF ME
10 SHATTUCK ST.
BOSTON, MA 02115

In acute and chronic edema due to CHF

A DIURETIC THAT GIVES YOU PREDICTABLE CONTROL

Bumex®
bumetanide/Roche

0.5-mg, 1-mg and 2-mg scored tablets; 2-ml ampuls and 2-ml, 4-ml and 10-ml vials (0.25 mg/ml)

Please see adjacent page for references and summary of product information.

Copyright © 1987 by Hoffmann-La Roche Inc. All rights reserved.

Missouri Medicine

Journal of the Missouri State Medical Association

September 1987

[redacted]

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA
SEP 15 1987

HAD A SUIT
PRESSED
LATELY?

Professional liability insurance is designed to protect you in the event of an allegation of medical malpractice. If you have ever been sued, you realize the importance of the claims staff of your insurance carrier.

MOMEDICO employs a staff of highly trained professionals to help you deal with claims and lawsuits. Our record speaks for itself—of all claims which have been handled to conclusion, 81.4% have been closed without payment of indemnity. We care about your professional reputation. We will not compromise a claim simply to save defense dollars.

Choose the carrier that puts your reputation above frivolous remuneration.

MOMEDICO

10795 Watson Road, St. Louis, MO 63127
314-965-1003 or toll free 800-392-8039

Jefferson City Office, 113 Madison
Jefferson City, MO 65101, 314-634-8090

Kansas City Office, 9229 Ward Parkway, Suite 290
Kansas City, MO 64114, 816-363-6161

Founded by the Missouri State Medical Association

Contents

ON CALL

Missouri State Medical Association
314/636-5151

American Medical Association
312/645-5000

MSMA Physician Rehabilitation Hotline
816/531-1258

MOMEDICO
1-800-392-8039

Dodson Insurance Group
1-800-892-3431

E. F. Hutton
(Call collect) 314/725-9690

Forrest T. Jones
1-800-892-7272

Fred S. James
Kansas City 816/842-6670
St. Louis 314/863-7777

Health Care Financing Administration
816/374-5233

Intrav
314/727-0500

Medicaid Provider Relations
1-800-392-0938

Medicare Provider Relations
1-800-392-3070

Medicare Part B Blue Cross Blue Shield
Kansas City
1-800-654-9629

Missouri Department of Health
314/751-6400

Missouri Department of Social Services
314/751-2086

Missouri Patient Care Review Foundation
(Preadmission) 1-800-392-8060
(General Info) 1-800-392-1312

Missouri State Bureau of Narcotics and Dangerous Drugs
314/751-8042

Missouri State Board of Registration of the Healing Arts
314/751-2334

Cover

"Greer's Springs," color photograph by Kailash C. Tarneja, M.D. of *West Plains.*

Scientific Articles

587 **Synchronous Renal and Pancreatic Transplantation**
Experience in Type I Diabetics with End-Stage Renal Disease
Paul J. Garvin, M.D., Kathleen Carney, PA-C, Marco Castenada, M.D., and Judy Hoff, R.N.
St. Louis, Missouri

592 **The Radiology of the Calcaneus**
Ray Cope, M.D.
Columbia, Missouri

596 **A Case-Control Study of Lung Cancer in St. Francois County, 1976-1984**
Ross C. Brownson, Ph.D., Janice R. Devier, M.P.A., Jian C. Chang, Ph.D., and James R. Davis, M.S.
Columbia, Missouri

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA
SEP 15 1987

Departments

567 Progress Notes
575 Letters to the Editor
579 Editor's Desk
581 Auxiliary Message
583 Practice Management
600 In Memoriam
601 Physician's Recognition Award
603 Medical School News
608 New Members
612 Information for Contributors
612 Index to Advertisers
613 Continuing Medical Education
614 Classifieds

my•o•pia

\mī-ˈō-pē-ə\: deficiency of foresight

SYMPTOMS: Most often observed in professionals who are inundated with day-to-day responsibilities. Dedicated to the needs of others, subject becomes focused on today... at the expense of tomorrow's full potential. May have complicated, expensive retirement plan with scattered investments and sometimes unfocused or nonexistent financial objectives. The lack of sufficient time and professional guidance may result in feelings of anxiety over future well-being of self, family and staff.

DIAGNOSIS: Financial myopia (common to this overworked peer group).

COMPLICATIONS: May not know where to turn for advice that is professional, comprehensive, personalized, flexible, diverse and *painless*.

R_x: As a member of the Missouri State Medical Association, you are eligible for treatment by highly qualified retirement planning specialists—no charge for initial consultation or subsequent quarterly or semiannual checkups. For security and peace of mind tomorrow (and possibly lower costs), call today for Michael Grimes - Director or Thomas Knapko - Associate Director at E.F. Hutton. Call collect 314-725-9690.

CONTRAINDICATIONS: None.

MISSOURI STATE MEDICAL ASSOCIATION
A membership benefit offered in conjunction
with Trust Consultants, Inc., and E.F. Hutton.

Missouri Medicine

Vol. 84, No. 9

Journal of the Missouri State Medical Association September 1987

Editor
Jordan W. Burkey, M.D.
Associate Editor
Donald G. Sessions, M.D.
Managing Editor
Susan Flanigan Gold
Business Manager
Royal O. Cooper
Editorial Assistant
Valerie Peters

EDITORIAL BOARD

Anesthesiology
George P. Hoech, Jr., M.D.
Cardiovascular Surgery
Jack J. Curtis, M.D.
Dermatology
Philip C. Anderson, M.D.
Ernest Lorenc, M.D.
Emergency Medicine
David M. Trantham, M.D.
Family Practice
William D. Bradshaw, M.D.
Carl R. Kruse, M.D.
Kirby L. Turner, M.D.
Gastroenterology
Jay P. Marshall, II, M.D.
Internal Medicine
John S. Daniels, M.D.
Stephen Hamburger, M.D.
Robert K. Skillman, M.D.
Neonatology
Elizabeth J. James, M.D.
Neurosurgery
Fred D. Fowler, M.D.
Obstetrics and Gynecology
Thomas M. Mier, M.D.
Oncology
Michael C. Perry, M.D.
Ophthalmology
John C. Hagan, III, M.D.
F. Thomas Ott, M.D.
Orthopedics
Raymond A. Ritter, Jr., M.D.
Otorhinolaryngology
Bentley A. Nelson, M.D.
Pathology
Eugene F. Tucker, M.D.
Pediatrics
R. Don Blim, M.D.
Psychiatry
William F. Clary, M.D.
Radiation Therapy
MacDonald B. Logie, M.D.
Radiology
Frederick M. Brandon, M.D.
Donald R. Germann, M.D.
General Surgery
Richard O. Craig, M.D.
Donald Silver, M.D.
Urology
Gilbert Ross, Jr., M.D

PUBLICATIONS COMMITTEE

Chairman
Jordan W. Burkey, M.D.
Vice-Chairman
Donald G. Sessions, M.D.
Members
Donald E. Menchetti, M.D.
Jerry W. Templer, M.D.
John K. Layle, M.D.
Earl R. Schultz, M.D

MSMA STAFF

Executive Vice President
Royal O. Cooper
Executive Director
C. C. Swarens
Director of Scientific Affairs
Ron Ellison
Field Secretary
Don Wilson
Director of Communications
R. Kay Dinolfo

Devoted to the interest of the medical profession and public health in Missouri

MSMA Officers

President	Larry G. Piepergerdes, M.D., *Kansas City*
President-Elect	T. J. Cooper, M.D., *St. Louis*
Secretary	Berry Ivy, M.D., *Springfield*
Treasurer	Jay Meyer, M.D., *St. Louis*
Immediate Past President	H. Peter Ekern, M.D., *Mexico*
Vice President	William J. Medlicott, M.D., *Kansas City*
Vice President	William C. Allen, M.D., *Columbia*
Vice President	John P. Roberts, M.D., *St. Louis*
Speaker	Arlen D. Winsky, M.D., *Springfield*
Vice-Speaker	Jo-Ellyn M. Ryall, M.D., *St. Louis*

Councilors

Marvin A. Singleton, M.D., *Joplin*, Chairman
Gary A. Dyer, M.D., *St. Joseph*, Vice Chairman
Robert V. Tompson, M.D., *Moberly*
William H. Huffaker, M.D., *St. Louis*
J. Otto Lottes, M.D., *St. Louis*
Arturo Montes, M.D., *St. Louis*
Frederick D. Peterson, M.D., *St. Louis*
David Wilkinson, M.D., *St. Louis*
Carol F. Williams, M.D., *St. Louis*
J. Michael Conoyer, M.D., *St. Peters*
Alan L. Braun, M.D., *Jefferson City*
Kenneth L. Rall, M.D., *Columbia*
A. J. Campbell, M.D., *Sedalia*
Raymond J. Caffrey, M.D., *Independence*
Robert T. Gibbons, M.D., *Prairie Village, KS*
Frederick W. Hahn, M.D., *Kansas City*
Dorothy D. Reister, M.D., *Shawnee Mission, KS*
Francis M. Corry, M.D., *Springfield*
David O. Barbe, M.D., *Mountain Grove*
Melvin C. Kasten, M.D., *Cape Girardeau*
Dean Blakeley, *Columbia*
Charles W. Barbee, M.D., *Columbia*
Gerry A. Love, M.D., *Kansas City*

Vice Councilors

Stephen Vilmer, M.D., *Shawnee Mission, KS*
Carl R. Kruse, M.D., *Palmyra*
Frank Ostapowicz, M.D., *Clayton*
Sammy L. Farrell, M.D., *Washington*
Jerry Murrell, M.D., *Columbia*
Jerry Meyer, M.D., *Concordia*
Mark W. Martin, M.D., *Lee's Summit*
David W. Hall, M.D., *Rogersville*
Thomas R. Stubbs, M.D., *West Plains*
William C. Shell, M.D., *Sikeston*
Evan Saunders, *St. Louis*
William Dorzab, M.D., *Kansas City*
Victoria Martin, M.D., *Shawnee Mission, KS*

AMA Delegates

Francis X. Lieb, M.D., *St. Louis*
Hugh E. Stephenson, Jr., M.D., *Columbia*
George M. Bohigian, M.D., *St. Louis*
Melvin C. Kasten, M.D., *Cape Girardeau*
Larry G. Piepergerdes, M.D., *Kansas City*
Vernon H. Balster, M.D., *St. Louis*
Walter A. German, M.D., *Springfield*

Printing Office: The Ovid Bell Press, Inc., Fulton 65251

Missouri Medicine (ISSN 0026-6620) is published monthly by the Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102.

Subscription rates: $15 per year. Interns and Residents, $7.50 per year

Second class postage paid at Jefferson City, Missouri and at additional mailing offices.

Postmaster: Send address changes to Missouri State Medical Association, c/o Membership Department, P.O. Box 1028, Jefferson City, MO 65102.

The articles published in *Missouri Medicine* represent the opinions of the authors, and do not necessarily reflect the official policy of the Missouri State Medical Association.

Copyright © 1987 by the Missouri State Medical Association. All rights reserved. Publication number 355380.

Could you use some help with your claims paperwork?

Put SUPERMIKE to work for you and join over 600 physicians already submitting Medicare Part B and Missouri Medicaid claims via electronic claim transmission.

SUPERMIKE is a software package that will reduce your claims paperwork and processing delays because it lets you know when a claim is incomplete before you send it.

With SUPERMIKE, all your claims go the same way, the same day, to the same place. General American/Medicare's Electronic Media Claims (EMC) Department will process your Medicare claims and forward your Medicaid claims to the state on a magnetic tape.

Technology was never so affordable—SUPERMIKE is only $49.95!

For more information, detach and mail this coupon:

Medicare / General
Part B / American

Linda Benso
Medicare/EMC, FO-1
General American Life Insurance Company
P.O. Box 505
St. Louis, MO 63166

MM9

Please send me your free brochure on SUPERMIKE, the automated claim transmission service for Missouri Medicare Part B and Medicaid.

Name of Physician: ________________________

Address: ________________________

City: ____________ State: ________ Zip: ________

Specialty: ____________ Phone: ____________

Person to Contact: ____________ Best Time: ________

MSMA Progress Notes

Zidovudine approved by Medicaid

Effective July 19, 1987, the Missouri Medicaid Program coverage of pharmaceuticals will include zidovudine. This drug, known as Retrovir by Burroughs Wellcome, is the only currently available FDA approved drug for the treatment of Acquired Immunodeficiency Syndrome (AIDS). Zicovudine will be added as a benefit for Medicaid eligible recipients through a prior authorization process that involves certification of medical need. Specific participation instructions will be forwarded to providers. ■

Mailing addresses for claim filing

Make sure your claims are processed correctly by following this list of addresses and post office box numbers:

General American Consultec
P.O. Box (see below)
Jefferson City, MO 65102

• Inpatient UB-82	P.O. Box 5100
• Outpatient UB-82	P.O. Box 5200
• Dental	P.O. Box 5300
• Pharmacy	P.O. Box 5400
• Nursing Home	P.O. Box 5500
• HCFA-1500; Home Health UB-82; and Medicare/ Medicaid Cross-Over Hard Copy Claims	P.O. Box 5600
• Prior Authorization Requests and Turn-Around-Claims	P.O. Box 5700

Routine claim submissions and resubmissions should not be sent to Program Relations. However, if you have a specific problem or question or need to submit a request for adjustment to a paid claim, please send your inquiry or form to:

Division of Medical Services
Program Relations Unit
P.O. Box 6500
Jefferson City, MO 65102 ■

MSMA members save 50% on Workers' Compensation Plan

MSMA members who participated in the Workers' Compensation dividend plan managed by the Dodson Insurance Group and approved by MSMA realized a 50% savings off scheduled premiums for the fiscal year ending July 1, 1987.

Under the plan, physicians receive an immediate 15% discount on their initial premiums. At the end of each fiscal year, participants receive a return on their premiums, based on the cost of claims paid that year. The fewer claims made, the higher the return.

For the year ending July 1, 1987, participants in the program received a 35% dividend return. This 35% return is coupled with the 15% up-front discount allowed when policies are written. Because the best dividends are earned when injuries are kept to a minimum, Dodson offers accident prevention counseling and expert safety advice to help keep the workplace safe.

For more information on how to join, call or write the Dodson Insurance Group, 92nd Street and State Line, Kansas City, MO 64114. 1-800/892-3431. ■

Medical Malpractice Insurance Law

The State Board of Registration for the Healing Arts (Board) is now acting within the provisions passed in last year's medical malpractice legislation, Senate Bill 663. The statute requires every insurer providing medical malpractice insurance and every health care provider who maintains professional liability coverage through a plan of self-insurance to submit to the director of insurance all claims, both open and closed. The Division of Insurance is then required to forward all the claims to the appropriate licensing board.

In addition, the Board has subpoena power to obtain the necessary documents. These subpoenas will have the seal of the Board and will be signed by the Board's president or secretary. ■

MSMA sponsors workshops

MSMA is sponsoring a series of workshops presented by Conomikes Associates:

"How to Run a More Profitable Practice"

- October 7 — Christian Hospital N.E., St. Louis
- October 8 — Hilton Plaza Inn, Kansas City

"How to Improve Third Party Reimbursement and Coding"

- December 1 — Location to be announced, Kansas City
- December 2 — Location to be announced, St. Louis

"How to Get Started in Medical Practice"

- December 3-4 — Location to be announced, St. Louis

Call MSMA at 314/636-5151 for more information or write MSMA, P.O. Box 1028, Jefferson City, MO 65102. ■

"Anti-dumping" law

The Consolidated Omnibus Budget Reconciliation Act (COBRA) passed last year prohibits the transfer of medically unstable patients for economic reasons. Not only can hospitals be subject to federal fines up to $25,000, but also hospitals can sue each other if they are on the receiving end of an action.

The law is designed to prevent "dumping" of patients who cannot pay so that cases involving these patients do not come under the review of PROs. However, the law does say that HCFA may ask PROs to evaluate a case if their medical expertise is needed. Unlike Medicare, PRO review of anti-dumping cases is not binding, but becomes part of HCFA's investigation. The PRO review results are strictly confidential and under no circumstances can be publicly released. ■

PRO denial of payment for substandard care

The Health Care Financing Administration (HCFA) has completed a draft notice of proposed rulemaking (NPRM), which attempts to implement the controversial provision of COBRA dealing with PRO denial of Medicare payment for substandard care.

The NPRM, if approved, must be reviewed by the Office of Management and Budget (OMB) before it can be released for comment in Federal Register. Publication was not expected before the end of August. Significant changes could still be made between now and publication based on reviews by the HHS Secretary and OMB.

The draft apparently requires that a determination of denial for substandard care be made by a specialist in the type of care received by the patient and that such denials be made only in cases where there was actual and significant adverse effect on the patient (e.g., death, disability, prolonged treatment).

On the subject of HCFA rules, there has been no new development relating to Transmittal 5. There has been recent optimism that HCFA would revise the transmittal in response to a letter from the American Hospital Association (AHA) which outlined major problems with implementation of the transmittal and which challenged the statutory authority for some of its provisions. AHA reports that HCFA has promised to respond and has prepared a draft letter which is undergoing internal review. ■

HCFA proposed rulemaking plans

HCFA plans to release in December an alphabetical listing of hospitals by state, identifying for each hospital its overall mortality rate and mortality rates for 16 diagnostic categories, in addition to a predicted "range" for each hospital in each category. Mortalities will include deaths occurring within 30 days of hospital admission and the 16 categories will account for 80% of Medicare deaths. Also published will be hospitals' comments on the data. ■

SuperPRO report

The Missouri Patient Care Review Foundation (MPCRF), Missouri's peer review organization (PRO), has received the final results from Systemetrics, Inc. (the SuperPRO) of its review of 390 records previously reviewed by MPCRF between August 1, and December 31, 1986. The MPCRF actual denial rate was 1.0%; the SuperPRO final report put the figure at 10.8%. Since the denial rate for the Missouri PRO is closer to 2% based on all cases reviewed, the SuperPRO's figures show that the MPCRF denial rate during the first five months of its current contract would have been five times higher if the review had been performed by Systemetrics, Inc. The SuperPRO also concluded that MPCRF should have made more referrals, DRG changes and determinations of premature discharge. MPCRF rebutted the SuperPRO's preliminary findings, citing social considerations and limited availability of some post-acute care services. The SuperPRO did reverse its initial findings on 21 cases.

MPCRF says that it has never allowed nor will it allow the results of a SuperPRO evaluation to dictate review policies and procedures. Missouri's PRO does not see the need for major change. ■

MPCRF Final Review Determination Policy

MPCRF has recently adopted a final review determination policy which states that whenever supplemental information is in direct conflict with the information in the medical record, the medical record information will have precedence over the information provided subsequent to a denial letter from the PRO.

Dan Jaco, Deputy Director of Operations, says that this policy is in no way intended to discourage physicians and hospitals from submitting additional information which may substantiate the medical necessity of an admission. On the contrary, MPCRF strongly encourages these reponses, particularly at the pending denial stage while there is still opportunity to reverse the denial before notice is sent to the patient. This policy, he says, was adopted to deal with a relatively small number of instances where the additional information was in direct contradiction to the medical record. ■

MSMA members appointed

Four MSMA members were recently appointed to important advisory positions.

James Whittico, M.D., of St. Louis was named Chairman of the State Board of Health. Thomas N. Schnurr, M.D. of Neosho was named Secretary of the State Board of Health. Both will serve four-year terms on this advisory board to the Missouri Department of Health. Dr. Whittico is a general surgeon, and Dr. Schnurr is a family physician.

In addition, William C. Banton II, M.D. of St. Louis and Walter Dandridge of Joplin were named to the Conjoint Legislative Committee to study health care for the underserved and needy population of Missouri. These physicians will prepare a report to be presented to the next Session of the Missouri General Assembly. Dr. Banton is an internist and current president of the St. Louis Metropolitan Medical Society. Dr. Dandridge is a general surgeon. ■

"Physician, heal thyself!"

In almost every discussion concerning the problem of spiraling professional liability insurance premiums, arguments are posed for various "causes" of the crisis. We have heard them all: The tort system in general, greedy attorneys, profit-hungry insurance companies and a suit-happy general public.

But another "cause" which is often pointed to, especially by legislators, lawyers and the public, is that medicine has been somewhat slow to discipline physicians who have demonstrated incompetence on several occasions.

"Self-policing" of the profession again came to the forefront during recent efforts to gain tort system changes. It became obvious that the profession, the Legislature and the public expected medicine to begin doing a better job of protecting patients from incompetent doctors.

The Board of Healing Arts, which licenses and disciplines physicians, began working on the problem at about the same time a Legislative Oversight Committee started looking at the Board and the way it carries out its duties. It was clear that changes were going to be made.

The Board, after drawing up proposed modifications in the Medical Practice Act to allow better "policing" brought the proposal to the MSMA and the Osteopathic Association for review and comment. Changes resulted but, after several meetings, the Board and Associations agreed on specific language. This language was later introduced as House Bill 667 by Rep. Jerry McBride of Rolla.

As HB 667 progressed through the General Assembly, the special Oversight Committee, a House and a Senate Committee, and individual Legislators provided their input to the bill. For example, the Oversight Committee bill (HB 852) introduced by Rep. Joe McCracken of Springfield, contained a mandatory continuing education provision which was not in the original bill.

As signed into law, there are several changes in the Medical Practice Act which will directly affect Missouri physicians. Although the vast majority of the language reprinted below has been in effect for years, we are reproducing the entire sections dealing with C.M.E., increased disciplinary powers and the "sick doctor" statute.

Mandatory Continuing Education

Missouri joins 22 other states in requiring continuing medical education for relicensure. The Board is currently working on rules to implement this section.

334.075. The board shall not renew any certificate of registration unless the licensee shall provide satisfactory evidence that he has complied with the board's minimum requirements for continuing education. At the discretion of the board, compliance with the provisions of this section may be waived for licensed physicians who have discontinued their practice of medicine because of retirement.

Increased Disciplinary Powers

334.100. 1. The board may refuse to issue or renew any certificate of registration or authority, permit or license required pursuant to this chapter for one or any combination of causes stated in subsection 2 of this section. The board shall notify the applicant in writing of the reasons for the refusal and shall advise the applicant of his right to file a complaint with the administrative hearing commission as provided by chapter 621, RSMo.

2. The board may cause a complaint to be filed with the administrative hearing commission as provided by chapter 621, RSMo, against any holder of any certificate of registration or authority, permit or license required by this chapter or any person who has failed to renew or has surrendered his certificate of registration or authority, permit or license for any one or any combination of the following causes:

(1) Use of any controlled substance, as defined in chapter 195, RSMo, or alcoholic beverage to an extent that such use impairs a person's ability to perform the work of any profession licensed or regulated by this chapter;

(2) The person has been finally adjudicated and found guilty, or entered a plea of guilty or nolo contendere, in a criminal prosecution under the laws of any state or of the United States, for any offense reasonably related to the qualifications, functions or duties of any profession licensed or regulated under this chapter, for any offense an essential element of which is fraud, dishonesty or an act of violence, or for any offense involving moral turpitude, whether or not sentence is imposed;

(3) Use of fraud, deception, misrepresentation or bribery in securing any certificate of registration or authority, permit or license issued pursuant to this chapter or in obtaining permission to take any examination given or required pursuant to this chapter;

(4) Misconduct, fraud, misrepresentation, dishonesty, unethical conduct or unprofessional conduct in the performance of the functions or duties of any profession licensed or regulated by this chapter, including, but not limited to, the following:

(a) Obtaining or attempting to obtain any fee, charge, tuition or other compensation by fraud, deception or misrepresentation; willfully and continually overcharging or overtreating patients; or charging for visits to the physician's office which did not occur unless the services were contracted for in advance, or for services which were not rendered or documented in the patient's records;

(b) Attempting, directly or indirectly, by way of intimidation, coercion or deception, to obtain or retain a patient or discourage the use of a second opinion or consultation;

(c) Willfully and continually performing inappropriate or unnecessary treatment, diagnostic tests or medical or surgical services;

(d) Delegating professional responsibilities to a person who is not qualified by training, skill, competency, age, experience or licensure to perform them;

(e) Misrepresenting that any

disease, ailment or infirmity can be cured by a method, procedure, treatment, medicine or device;

(f) Performing or prescribing medical services which have been declared by board rule to be of no medical or osteopathic value;

(g) Final disciplinary action by any professional medical or osteopathic association or society or licensed hospital or medical staff of such hospital in this or any other state or territory, whether agreed to voluntarily or not, and including but not limited to, any removal, suspension, limitation, or restriction of his license or staff or hospital privileges, failure to renew such privileges or license for cause, or other final disciplinary action, if the action was in any way related to unprofessional conduct, professional incompetence, malpractice or any other violation of any provision of this chapter;

(h) Signing a blank prescription form; or dispensing, prescribing, administering or otherwise distributing any drug, controlled substance or other treatment without sufficient examination or establishment of a physician/patient relationship, or for other than medically accepted therapeutic or experimental or investigative purposes duly authorized by a state or federal agency, or not in the course of professional practice, or not in good faith to relieve pain and suffering, or not to cure an ailment, physical infirmity or disease; or the writing of a prescription by anyone other than a properly licensed physician, including, but not limited to, the writing of prescriptions by anyone under a physician's supervision, control, instructions or protocol if such person is not a physician;

(i) Exercising influence within a physician-patient relationship for purposes of engaging a patient in sexual activity;

(j) Terminating the medical care of a patient without adequate notice or without making other arrangements for the continued care of the patient;

(k) Failing to furnish details of a patient's medical records to other treating physicians or hospitals upon proper request; or failing to comply with any other law relating to medical records;

(l) Failure of any applicant or licensee, other than the licensee subject to the investigation, to cooperate with the board during any investigation;

(m) Failure to comply with any subpoena or subpoena duces tecum from the board or an order of the board;

(n) Failure to timely pay license renewal fees specified in this chapter;

(o) Violating a probation agreement with this board or any other licensing agency;

(p) Failing to inform the board of the physician's current residence and business address;

(q) Advertising by an applicant or licensee which is false or misleading, or which violates any rule of the board, or which claims without substantiation the positive cure of any disease, or professional superiority to or greater skill than that possessed by any other physician. An applicant or licensee shall also be in violation of this provision if he has a financial interest in any organization, corporation or association which issues or conducts such advertising;

(5) Any conduct or practice which is or might be harmful or dangerous to the mental or physical health of a patient or the public; or incompetency, gross negligence or repeated negligence in the performance of the functions or duties of any profession licensed or regulated by this chapter. For the purposes of this subdivision, "repeated negligence" means the failure, on more than one occasion, to use that degree of skill and learning ordinarily used under the same or similar circumstances by the member of the applicant's or licensee's profession;

(6) Violation of, or attempting to violate, directly or indirectly, or assisting or enabling any person to violate, any provision of this chapter, or of any lawful rule or regulation adopted pursuant to this chapter;

(7) Impersonation of any person holding a certificate of registration or authority, permit or license or allowing any person to use his or her certificate of registration or authority, permit, license or diploma from any school;

(8) Revocation, suspension, restriction, modification, limitation, reprimand, warning, censure, probation or other final disciplinary action against the holder of or applicant for a license or other right to practice any profession regulated by this chapter by another state, territory, federal agency or country, whether or not voluntarily agreed to by the licensee or applicant, including, but not limited to, the denial of licensure, surrender of the license, allowing the license to expire or lapse, or discontinuing or limiting the practice of medicine while subject to an investigation or while actually under investigation by any licensing authority, medical facility, branch of the armed forces of the United States of America, insurance company, court, agency of the state or federal government, or employer;

(9) A person is finally adjudged incapacitated or disabled by a court of competent jursdiction;

(10) Assisting or enabling any person to practice or offer to practice any profession licensed or regulated by this chapter who is not registered and currently eligible to practice under this chapter, or knowingly performing any act which in any way aids, assists, procures, advises, or encourages any person to practice medicine who is not registered and currently eligible to practice under this chapter;

(11) Issuance of a certificate of registration or authority, permit or license based upon a material mistake of fact;

(12) Failure to display a valid certificate or license if so required by this chapter or any rule promulgated under this chapter;

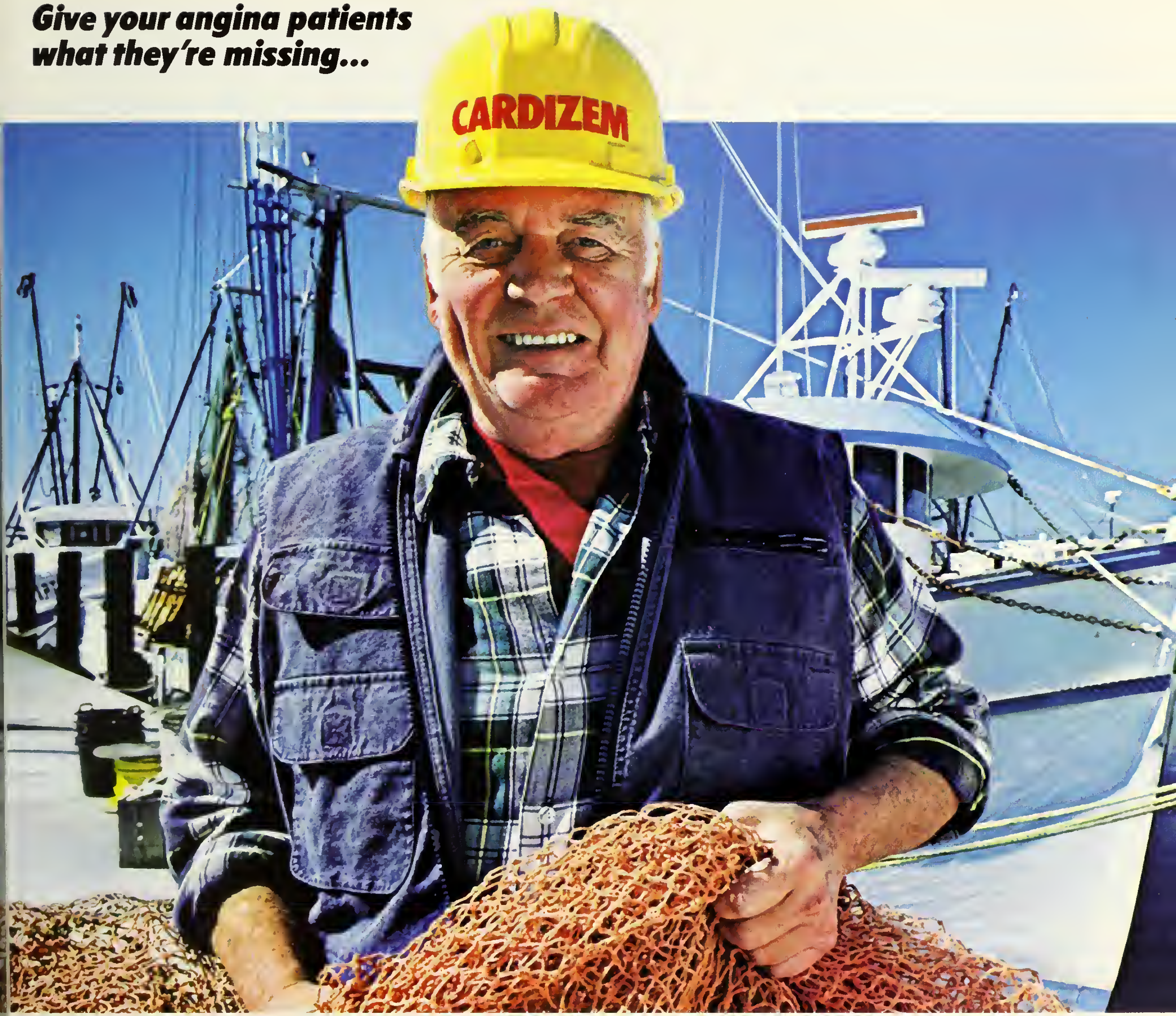
(13) Violation of the drug laws or rules and regulations of this state, any other state or the federal government;

(14) Knowingly making, or causing to be made, or aiding, or abetting in the making of, a false statement in any birth, death or other certificate or document executed in connection with the practice of his profession;

(15) Soliciting patronage in person or by agents or representatives, or by any other means or manner, under his own name or under the name of another person or concern, actual or pretended, in such a manner as to confuse, deceive, or mislead the public as to the need or necessity for or appropriateness of health care services for all patients, or the qualifications of an individual person or persons to diagnose, render, or perform health care services;

(16) Using, or permitting the use of, his name under the designation of "Doctor," "Dr.," "M.D.," or "D.O.," or any similar designation with reference to the commercial

Give your angina patients what they're missing...



CARDIZEM®: FEW SIDE EFFECTS

diltiazem HCl/Marion

90 mg GREATER DOSAGE FLEXIBILITY NEW 120 mg

- ***Antianginal action includes dilatation of coronary arteries, a decrease in vascular resistance/afterload, and a reduction in heart rate***
- ***Proven efficacy when used alone in angina[1]***
- ***Compatible with other antianginals[2,3]****
- ***A safe choice for angina patients with coexisting hypertension, asthma, COPD, or PVD[4,5]***

**See Warnings and Precautions.*

Please see brief summary of prescribing information on the next page.

CARDIZEM® FEW SIDE EFFECTS IN ANTIANGINAL THERAPY

diltiazem HCl/Marion

60 mg tid or qid

Brief Summary
Professional Use Information

CARDIZEM®
(diltiazem HCl)
30 mg, 60 mg, 90 mg, and 120 mg Tablets

CONTRAINDICATIONS

CARDIZEM is contraindicated in (1) patients with sick sinus syndrome except in the presence of a functioning ventricular pacemaker, (2) patients with second- or third-degree AV block except in the presence of a functioning ventricular pacemaker, and (3) patients with hypotension (less than 90 mm Hg systolic).

WARNINGS

1. **Cardiac Conduction.** CARDIZEM prolongs AV node refractory periods without significantly prolonging sinus node recovery time, except in patients with sick sinus syndrome. This effect may rarely result in abnormally slow heart rates (particularly in patients with sick sinus syndrome) or second- or third-degree AV block (six of 1,243 patients for 0.48%). Concomitant use of diltiazem with beta-blockers or digitalis may result in additive effects on cardiac conduction. A patient with Prinzmetal's angina developed periods of asystole (2 to 5 seconds) after a single dose of 60 mg of diltiazem.
2. **Congestive Heart Failure.** Although diltiazem has a negative inotropic effect in isolated animal tissue preparations, hemodynamic studies in humans with normal ventricular function have not shown a reduction in cardiac index nor consistent negative effects on contractility (dp/dt).

   Experience with the use of CARDIZEM alone or in combination with beta-blockers in patients with impaired ventricular function is very limited. Caution should be exercised when using the drug in such patients.
3. **Hypotension.** Decreases in blood pressure associated with CARDIZEM therapy may occasionally result in symptomatic hypotension.
4. **Acute Hepatic Injury.** In rare instances, significant elevations in enzymes such as alkaline phosphatase, CPK, LDH, SGOT, SGPT, and other symptoms consistent with acute hepatic injury have been noted. These reactions have been reversible upon discontinuation of drug therapy. The relationship to CARDIZEM is uncertain in most cases, but probable in some. (See PRECAUTIONS.)

PRECAUTIONS

General. CARDIZEM (diltiazem hydrochloride) is extensively metabolized by the liver and excreted by the kidneys and in bile. As with any new drug given over prolonged periods, laboratory parameters should be monitored at regular intervals. The drug should be used with caution in patients with impaired renal or hepatic function. In subacute and chronic dog and rat studies designed to produce toxicity, high doses of diltiazem were associated with hepatic damage. In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats were associated with histological changes in the liver which were reversible when the drug was discontinued. In dogs, doses of 20 mg/kg were also associated with hepatic changes; however, these changes were reversible with continued dosing.

Drug Interaction. Pharmacologic studies indicate that there may be additive effects in prolonging AV conduction when using beta-blockers or digitalis concomitantly with CARDIZEM. (See WARNINGS.)

Controlled and uncontrolled domestic studies suggest that concomitant use of CARDIZEM and beta-blockers or digitalis is usually well tolerated. Available data are not sufficient, however, to predict the effects of concomitant treatment, particularly in patients with left ventricular dysfunction or cardiac conduction abnormalities. In healthy volunteers, diltiazem has been shown to increase serum digoxin levels up to 20%.

Carcinogenesis, Mutagenesis, Impairment of Fertility. A 24-month study in rats and a 21-month study in mice showed no evidence of carcinogenicity. There was also no mutagenic response in in vitro bacterial tests. No intrinsic effect on fertility was observed in rats.

Pregnancy. Category C. Reproduction studies have been conducted in mice, rats, and rabbits. Administration of doses ranging from five to ten times greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and fetal lethality. These doses, in some studies, have been reported to cause skeletal abnormalities. In the perinatal/postnatal studies, there was some reduction in early individual pup weights and survival rates. There was an increased incidence of stillbirths at doses of 20 times the human dose or greater.

There are no well-controlled studies in pregnant women; therefore, use CARDIZEM in pregnant women only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers. Diltiazem is excreted in human milk. One report suggests that concentrations in breast milk may approximate serum levels. If use of CARDIZEM is deemed essential, an alternative method of infant feeding should be instituted.

Pediatric Use. Safety and effectiveness in children have not been established.

ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but it should be recognized that patients with impaired ventricular function and cardiac conduction abnormalities have usually been excluded.

In domestic placebo-controlled trials, the incidence of adverse reactions reported during CARDIZEM therapy was not greater than that reported during placebo therapy.

The following represent occurrences observed in clinical studies which can be at least reasonably associated with the pharmacology of calcium influx inhibition. In many cases, the relationship to CARDIZEM has not been established. The most common occurrences as well as their frequency of presentation are: edema (2.4%), headache (2.1%), nausea (1.9%), dizziness (1.5%), rash (1.3%), asthenia (1.2%). In addition, the following events were reported infrequently (less than 1%):

Cardiovascular:	Angina, arrhythmia, AV block (first degree), AV block (second or third degree — see conduction warning), bradycardia, congestive heart failure, flushing, hypotension, palpitations, syncope.
Nervous System:	Amnesia, gait abnormality, hallucinations, insomnia, nervousness, paresthesia, personality change, somnolence, tinnitus, tremor.
Gastrointestinal:	Anorexia, constipation, diarrhea, dysgeusia, dyspepsia, mild elevations of alkaline phosphatase, SGOT, SGPT, and LDH (see hepatic warnings), vomiting, weight increase.
Dermatologic:	Petechiae, pruritus, photosensitivity, urticaria.
Other:	Amblyopia, dyspnea, epistaxis, eye irritation, hyperglycemia, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties.

The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: alopecia, gingival hyperplasia, erythema multiforme, and leukopenia. However, a definitive cause and effect between these events and CARDIZEM therapy is yet to be established. Issued 9/86

See complete Professional Use Information before prescribing.

References: 1. Pepine CJ, Feldman RL, Hill JA, et al: Clinical outcome after treatment of rest angina with calcium blockers: Comparative experience during the initial year of therapy with diltiazem, nifedipine, and verapamil. Am Heart J 1983; 106(6):1341-1347. **2.** Shapiro W: Calcium channel blockers: Actions on the heart and uses in ischemic heart disease. Consultant 1984;24(Dec):150-159. **3.** Johnston DL, Lesoway R, Humen DP, et al: Clinical and hemodynamic evaluation of propranolol in combination with verapamil, nifedipine and diltiazem in exertional angina pectoris: A placebo-controlled, double-blind, randomized, crossover study. Am J Cardiol 1985;55:680-687. **4.** Cohn PF, Braunwald E: Chronic ischemic heart disease, in Braunwald E (ed): Heart Disease: A Textbook of Cardiovascular Medicine, ed 2. Philadelphia, WB Saunders Co, 1984, chap 39. **5.** Schroeder JS: Calcium and beta blockers in ischemic heart disease: When to use which. Mod Med 1982;50(Sept):94-116.

Another patient benefit product from

PHARMACEUTICAL DIVISION
MARION
LABORATORIES, INC.
KANSAS CITY, MO 64137

1403E7

exploitation of any goods, wares or merchandise;

(17) Knowingly making or causing to be made a false statement or misrepresentation of a material fact, with intent to defraud, for payment under the provisions of chapter 208 or 630, RSMo, or for payment from Title XVIII or Title XIX of the federal Medicare program;

(18) Failure or refusal to properly guard against contagious, infectious or communicable diseases or the spread thereof; maintaining an unsanitary office or performing professional services under unsanitary conditions; or failure to report the existence of an unsanitary condition in the office of a physician or in any health care facility to the board, in writing, within thirty days after the discovery thereof;

Patient's "Freedom-of-Choice"

Sections (19) and (20) deal with physical therapists and are omitted here. However, Section (21) will affect dispensing physicians. When a physician prescribes drugs, devices or any professional service, the physician must provide the patient with a prescription to be filled wherever the patient desires.

(21) Any person licensed to practice as a physician or surgeon, requiring, as a condition of the physician/patient relationship, that the patient receive prescribed drugs, devices or other professional services directly from facilities of that physician's office or other entities under that physician's ownership or control. A physician shall provide the patient with a prescription which may be taken to the facility selected by the patient;

(22) A pattern of personal use or consumption of any controlled substance unless it is prescribed, dispensed or administered by another physician who is authorized by law to do so;

(23) Revocation, suspension, limitation or restriction of any kind whatsoever of any controlled substance authority, whether agreed to voluntarily or not;

"Sick Doctor" Provisions

After the Board has determined probable cause that a physician is incompetent, the following provisions apply:

(24) Being unable to practice as a physician and surgeon or with a specialty with reasonable skill and safety to patients by reasons of medical or osteopathic incompetency, or because of illness, drunkenness, excessive use of drugs, narcotics, chemicals, or as a result of any mental or physical condition.

(a) In enforcing this subdivision the board shall, after a hearing by the board, upon a finding of probable cause, require a physician to submit to a reexamination for the purpose of establishing his or her competency to practice as a physician or surgeon or with a specialty conducted in accordance with rules adopted for this purpose by the board, including rules to allow the examination of the pattern and practice of said physician's or surgeon's professional conduct, or to submit to a mental or physical examination or combination thereof by at least three physicians, one selected by the physician compelled to take the examination, one selected by the board, and one selected by the two physicians so selected who are graduates of a professional school approved and accredited as reputable by the association which has approved and accredited as reputable the professional school from which the licentiate graduated. However, if the physician is a graduate of a medical school not accredited by the American Medical Association or American Osteopathic Association, then each party shall choose any physician who is a graduate of a medical school accredited by the American Medical Association or the American Osteopathic Association.

(b) For the purpose of this subdivision, every physician licensed under this chapter is deemed to have consented to submit to a mental or physical examination when directed in writing by the board and further to have waived all objections to the admissibility of the examining physician's testimony or examination reports on the ground that same is privileged.

(c) In addition to ordering a physical or mental examination to determine competency, the board may, notwithstanding any other law limiting access to medical or other health data, obtain medical data and health records relating to a physician or applicant without the physician's or applicant's consent.

(d) Written notice of the reexamination or the physical or mental examination shall be sent to the physician, by registered mail, addressed to the physician at his last known address. Failure of a physician to designate an examining physician to the board or failure to submit to the examination when directed shall constitute an admission of the allegations against him, in which case the board may enter a final order without the presentation of evidence, unless the failure was due to circumstances beyond his control. A physician whose right to practice has been affected under this subdivision shall, at reasonable intervals, be afforded an opportunity to demonstrate that he can resume the competent practice as a physician and surgeon with reasonable skill and safety to patients.

(e) In any proceeding under this subdivision neither the record of proceedings nor the orders entered by the board shall be used against a physician in any other proceeding. Proceedings under this subdivision shall be conducted by the board without the filing of a complaint with the admistrative hearing commission.

(f) When the board finds any person unqualified because of any of the grounds set forth in this subdivision, it may enter an order imposing one or more of the disciplinary measures set forth in subsection 3 of this section.

3. After the filing of such complaint, before the administrative hearing commission, the proceedings shall be conducted in accordance with the provisions of chapter 621, RSMo. Upon a finding by the administrative hearing commission that the grounds, provided in subsection 2, for disciplinary action are met, the board may, singly or in combination, warn, censure or place the person named in the complaint on probation on such terms and conditions as the board deems appropriate for a period not to exceed ten years, or may suspend his license, certificate or permit for a period not to exceed three years, or restrict or limit his license, certificate or permit for an indefinite period of time, or revoke his license, certificate, or permit, or administer a public or private reprimand, or deny his application for a license, or permanently withhold issuance of a license or require him to submit to the care, counseling or treatment of physicians designated by the board at the expense of the individual to be examined, or require him to attend

such continuing educational courses and pass such examinations as the board may direct.

4. In any order of revocation, the board may provide that the person may not apply for reinstatement of his license for a period of time ranging from two to seven years following the date of the order of revocation. All stay orders shall toll this time period.

5. Before restoring to good standing a license, certificate or permit issued under this chapter which has been in a revoked, suspended or inactive state for any cause for more than two years, the board may require the applicant to attend such continuing medical education courses and pass such examinations as the board may direct.

6. In any investigation, hearing or other proceeding to determine a licensee's or applicant's fitness to practice, any record relating to any patient of the licensee or applicant shall be discoverable by the board and admissible into evidence, regardless of any statutory or common law privilege which such licensee, applicant, record custodian or patient might otherwise invoke. In addition, no such licensee, applicant, record custodian may withhold records or testimony bearing upon a licensee's or applicant's fitness to practice on the ground of privilege between such licensee, applicant or record custodian and a patient.

Publish Disciplinary Actions

334.101. 1. Other provisions of section 620.010, RSMo, to the contrary notwithstanding, the board shall, at least quarterly, publish a list of the names and addresses of all persons who hold licenses under the provisions of this chapter, and shall publish a list of all persons whose licenses have been suspended, revoked, surrendered, restricted, denied or withheld. The board shall mail a copy of such lists to any person, upon request.

2. Other provisions of section 620.010, RSMo, to the contrary notwithstanding, in addition, the board shall prepare and make available to the public a report upon the disciplinary matters submitted to them where the board recommends disciplinary action except in those instances when persons possessing licenses voluntarily enter treatment and monitoring programs for purposes of rehabilitation and, in these instances, only this specific action shall not be reported with any other actions taken prior to, as part of, or following voluntary entrance into such treatment programs. The report shall set forth findings of fact and any final disciplinary actions of the board. Where the board does not recommend disciplinary action, a report stating that no action is recommended shall be prepared and forwarded to the complaining party.

334.127. 1. The president or secretary of the board may administer oaths, subpoena witnesses, issue subpoenas duces tecum and require production of documents and records. Subpoenas, including subpoenas duces tecum, shall be served by a person authorized to serve subpoenas of courts of record. In lieu of requiring attendance of a person to produce original documents in response to a subpoena duces tecum, the board may require sworn copies of such documents to be filed with it or delivered to its designated representative.

2. The board may enforce its subpoenas, including subpoena duces tecum, by applying to a circuit court of Cole County, the county of the investigation, hearing or proceeding, or any county where the person resides or may be found, for an order upon any person who shall fail to obey a subpoena to show cause why such subpoena should not be enforced, which such order and a copy of the application therefore shall be served upon the person in the same manner as a summons in a civil action, and if the circuit court shall, after a hearing, determine that the subpoena should be sustained and enforced, such court shall proceed to enforce the suboena in the same manner as though the subpoena had been issued in a civil case in the circuit court.

Liability Exclusion

334.128. Any person who reports or provides information to the board, or any person who assists the board, including, but not limited to, applicants or licensees who are the subject of an investigation, physicians serving on competency panels, medical record custodians, consultants, attorneys, board members, agents, employees or expert witnesses, in the course of any investigation, hearing or other proceeding conducted by or before the board pursuant to the provisions of this chapter and who does so in good faith and without malice shall not be subject to an action for civil damages as a result thereof, and no cause of action of any nature shall arise against him. The attorney general shall defend such persons in any such action or proceeding. ■

Personal Financial Planning

Because the sands of time don't stop.

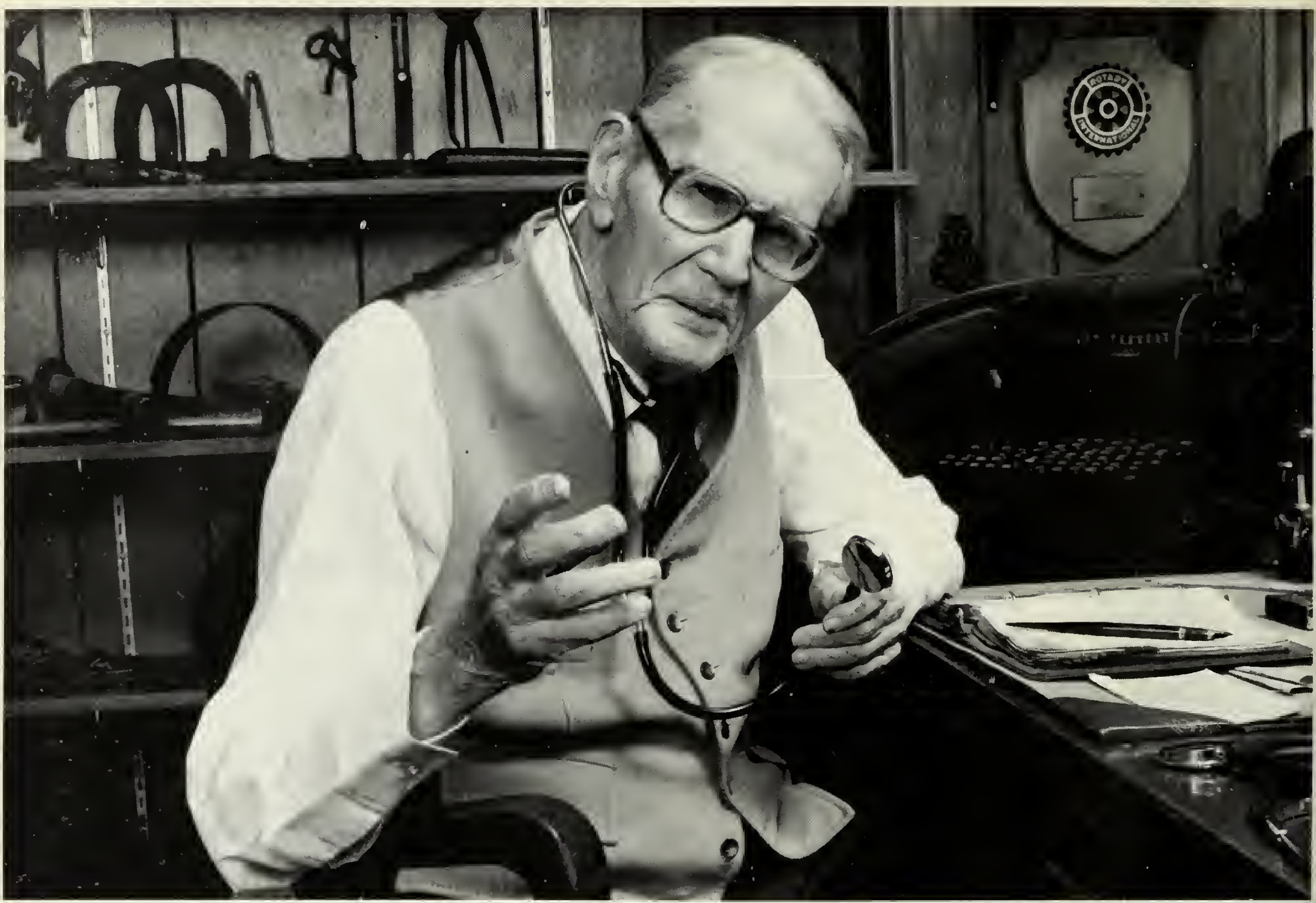
Busy professionals need straight talk on financial matters such as financial planning for years ahead, counsel on investments and information on retirement options. Our Personal Financial Planning Division has experts who will discuss your needs with you, then suggest a program that will help you get the most for your dollar.

The solid reputation of our Trust Department, with over 200 specialists, can work to your advantage. For instance, proper financial and estate planning will include a review of your assets and structuring of your finances to minimize taxes and carry out your financial wishes.

In short, United Missouri Bank and our Personal Financial Planning Division can be your source for good advice on important financial matters. Before much more sand slips through the glass, call us today.

UNITED MISSOURI BANKS

Members FDIC



"Not too long ago, if you were a good doctor…
you wouldn't need a good lawyer!"

Times have changed, haven't they? Malpractice suits are on the rise, and today's physician must be prepared for them, no matter how successful he is or how spotless his reputation.

At Medical Defense Associates, we'll fight unmerited claims against you. Since MDA is strictly non-profit, we answer only to you, our policyholder, and not to stockholders. The protection offered to you by MDA is protection you can count on from an organization as concerned with the longevity of your practice as you are. Call us — toll free. Let us tell you more about malpractice suit protection from MDA.

In today's world . . . today's physician needs Medical Defense Associates.

Call toll free 1-800-492-7212

Medical Defense Associates
P.O. Box 3817
Springfield, MO 65808
Represented by Wedgeworth and Co. Ltd.
dba Missouri Malpractice Managers

Alzheimer's Disease

Dear Dr. Burkey:

"Doctor, we need to talk to you about Mother. We think she has Old Timer's Disease."

"Do you mean Alzheimer's Disease?"

"Yes, Old Timer's Disease. You know, she can't remember things, gets confused, repeats herself, etc."

The above conversation took place in my office and I suspect other doctors know of similar exchanges. The correlation of age and dementia is ancient and makes the substitution of "Old Timer's" for "Alzheimer's" ironically appropriate. I know that an "appropriate malapropism" is an oxymoron, but given the public perception of dementia, it is at least understandable. Unfortunately, Alzheimer's isn't limited to the elderly and can even afflict people in their 40s.

Like Carl Sandburg's Fog, Alzheimer's "comes on little cat feet." Its onset is often subtle and insidious. Sadly, it doesn't sit silently like Sandburg's cat and then move on, but rather like a tiger, stays and relentlessly destroys the brain. All of the cognitive skills, memories, and wisdom of a lifetime are progressively lost.

The tragedy of Alzheimer's can be overwhelming for both the patient and the family. For example, I cared for a lady in her 70s who was bright (a degree in mathematics), physically healthy, active in community and church affairs, and at that stage in life where she enjoyed reading, social activities, thinking, and especially her grandchildren. Gradually, she became unreliable, forgetting names, addresses, facts, etc. Conversation became more difficult. The early symptoms of the dementia were subtle. She would misplace things or get lost. The disorientation progressed. Later she was requiring constant attention and then continual care. Normal activities ceased; her ability to function in a meaningful way within society was progressively destroyed.

Shakespeare's "Tis the mind that makes the body rich" attained a new meaning and importance. For this lady, daily routines became insurmountable tasks while her personality became unmercifully disorganized. Home care was effective for a while as long as there was constant supervision. She became very depressed about her limitations and loss of intellectual abilities.

Later, when shown a picture of her deceased husband, to whom she had been married for 42 years, she asked "Didn't I date him once?" It was almost a blessing when the Alzheimer's progressed to a point that she was not even aware that her brain was not working properly. Problems compounded.

Then came institutionalization in a nursing home. Her overall health deteriorated along with her brain. In the end she could not recognize anyone, including herself. Her speech consisted of garbled, meaningless sounds and her ability to comprehend and function diminished with each visit. Multiple therapies were tried, but to no avail.

Like most Alzheimer's patients, she had a progressive downhill course until her death. It is difficult to reflect on the enormity of this brutal process that wastes so many minds. As her death approached there were no machines, tubes or other last-ditch high-tech heroic efforts to save her life. It was too late. Trusting in a merciful God, she was allowed to die in peace.

She was my Mother.

For others who have and will get this dread disease, there is hope. When I was in medical school in the late 60's, Alzheimer's Disease didn't rate a full lecture or even a complete page in my medicine textbook. Its importance was simply not known. I personally relegated Alzheimer's information (and other facts, like the number of capsids on an influenza virus, knowing that eskimos get vitamin A toxicity when they eat polar bear liver, etc.) to that category of information that may or may not be interesting, but certainly appeared to be of doubtful relevance to my future as a practicing physician.

That has definitely changed and Alzheimer's research and awareness have justifiably increased. This is appropriate for a disease which we now know may afflict two million Americans. Articles on aluminum metabolism, slow-acting viruses, prions, genetic predisposition, auto-immune processes, chromosome #21, augmentation of the cholinergic transmitter system, THC, seven stages of decline, PET patterns, etc., represent just some of the numerous studies and information recently published.

The brain plaques and neurofibrillary tangles of Alzheimer's represent a modern medical Gordian knot. These victims and their families need our care and compassion. They also need from our society, research and progress. I hope we can deliver.

Sincerely,
Edwin J. Masters, M.D.
Cape Girardeau, MO

On Clearer Hearing

by James J. Lally, M.D.
Kansas City, MO

While the guillotine was being used heavily during the French Revolution, the idea finally came across that the rank and file peasants didn't approve of their higher living leaders. When the plea of the hungry rang out, "They have no bread," the infamous reply floated back, "Too bad; let them eat cake." And many heads falling into the guillotine basket those days were thinking, "Wish we had heard their message a little clearer."

In a somewhat similar scene, we are now involved and while the poor, the unable, and the Medicare patient complain they cannot pay for their health care because of government regulations, restrictions and requirements, our senators and congressmen's historical answer comes ringing back, "Let us raise our own salaries again. We must at least take care of ourselves and stay commensurate with those higher paying jobs of private industry. We congressmen are forced to take a higher and higher salary bite from the stuggling people, so let them tighten their belts just a little more."

History teaches us the truly heroic leaders always identified with their own. Times become unhappy when the leaders are not in tune with those they lead. When the people were struggling and beset with hard times, the more noble leaders accepted the hard times too. Notable exceptions were the Czars, the French Court and Nero, who fiddled while Rome burned. Have our elected representatives ever read about them?

Consider the results if Winston Churchill, in the Battle of Britain, had called for "blood, sweat and tears from all of you out there but not from us here at #10 Downing Street. We are going to raise our salaries now to be commensurate with the folks in the other higher paying jobs."

Consider also the ship's captain, as his vessel sinks into the ocean. "Get all the life boats lowered out there, you men, but remember to get my private lifeboat stocked with the better food from the kitchen, and of course, lower my boat first of all. I must be present for my next raise in salary to stay commensurate with those higher floating jobs."

Or perhaps the airline captain, after strapping on his parachute and about to leap from the falling airliner, who called back to the fearful passengers, "Sorry, folks. Good luck to you all. Things may look rough to you now but I have an offer of a higher salary from another airline to stay commensurate with those higher flying jobs out there."

In a more recent account, consider Mr. Ivan Boesky's possible remark, "I want all of you out there to get rich, but I plan to get rich quicker still; try and get commensurate if you can."

The guillotines have been put away for the present and we say things aren't handled that way anymore. But, honorable senators and congressmen, there may be another sharp-bladed instrument out there waiting for you. It is the Medicare and other distressed patients' votes that can cut you off from all that you hold dear. There are now quite a few voting Medicare folks, whose increase in health care costs seem to match your increases in salary. And for some unfair reason they think you should treat them as well as you treat yourselves.

After the next election, is it possible you too will wish you had heard their message a little clearer? ■

"Without your help I simply could not have made it through medical school."

The Missouri State Medical Foundation — MSMF — was created by the Missouri State Medical Association for the express purpose of giving financial assistance to deserving young Missourians who will be tomorrow's doctors.

Send your check today to the Missouri State Medical Foundation, 113 Madison St., P.O. Box 1028, Jefferson City, MO 65101.

READ THIS AD ONLY IF YOU'RE INTERESTED IN GETTING YOUR INSURANCE CLAIMS PROCESSED 7 TO 14 DAYS *FASTER*

For years Mid-America Computing, Inc. (MAC) has been submitting insurance claims to Blue Shield and Medicare for our clients electronically. This facilitated processing more claims in less time and fewer errors. The bottom line: faster turn-around of dollars back to our clients!

MAC again pioneered by becoming the FIRST in Kansas City with electronic claims processing through the National Electronic Information Corporation. That means we now provide our clients electronic time saving, bottom line turnaround cash benefits with over 40 private commercial insurance companies.

It's easy to receive MAC's one format, one source, no paper forms, no mailing, faster electronic claims submission services. Just fill in the coupon or give us a call and we'll show you, entirely without obligation, how we can improve your cash flow.

Mid-America Computing, Inc. is the one-source support organization that professionals in the medical field turn to for:

- **Complete in-house turn-key processing systems**
- **Complete facilities management**
- **Billings by batch processing**
- **On-line billing processing**
- **Electronic Insurance Claims processing**

Mid-America Computing, Inc.
A Data Mart Company
10881 Lowell, Suite 300
Overland Park, Kansas 66210
Tel. (913) 661-0400

Mid-America Computing, Inc.
10881 Lowell, Suite 300
Overland Park, KS 66210

I'm interested in improving my cash flow. Please call to arrange a no-obligation exploration of how MAC can help.

Name ....

Firm ....

Address ....

City/State/ ZIP ....

Telephone ....

When Other Friendships Are Forgot, Ours Will Still Be Hot

Hello, hello!
This is your P.R.O.
Although our major goal is that you love us,
We've got the smarts
To go through all your charts
And scrutinize each datum that you guv' us.

Yes, we're your friend
Until the bitter end;
We like to think that we're most understanding.
But if your charts
Are lacking certain parts,
We're not above some gentle reprimanding.

Most of you know:
The patient's gotta go
The hospital's no place for convalescence.
And we've got the clout
To throw those patients out
Without — although we'd like — your acquiescence.

From where we sit
If you, perchance, admit
A simple problem such as Leishmaniasis.
We'd surely frown
And if we turn "thumbs down,"
We're following the rules, not our own biases.

We're on your side,
That cannot be denied;
We both are members of the same profession.
And so, if we
Seem like the KGB,
That could just be a paranoid obsession.

So, don't forget
The rules have all been set
We're not the KGB if you play fairly . . .
All will be fine
And if you toe the line
Your P.R.O. will hit upon you rarely.

—Ben Milder, M.D.
St. Louis

CARAFATE®
(sucralfate)

BRIEF SUMMARY

CONTRAINDICATIONS
There are no known contraindications to the use of sucralfate.

PRECAUTIONS
Duodenal ulcer is a chronic, recurrent disease. While short-term treatment with sucralfate can result in complete healing of the ulcer, a successful course of treatment with sucralfate should not be expected to alter the post-healing frequency or severity of duodenal ulceration.

Drug Interactions: Animal studies have shown that the simultaneous administration of CARAFATE with tetracycline, phenytoin, or cimetidine will result in a statistically significant reduction in the bioavailability of these agents. This interaction appears to be nonsystemic in origin, presumably resulting from these agents being bound by CARAFATE in the gastrointestinal tract. The bioavailability of these agents may be restored simply by separating the administration of these agents from that of CARAFATE by two hours. The clinical significance of these animal studies is yet to be defined.

Carcinogenesis, Mutagenesis, Impairment of Fertility: No evidence of drug-related tumorigenicity was found in chronic oral toxicity studies of 24 months' duration conducted in mice and rats at doses up to 1 gm/kg (12 times the human dose). A reproduction study in rats at doses up to 38 times the human dose did not reveal any indication of fertility impairment. Mutagenicity studies have not been conducted.

Pregnancy: Pregnancy Category B. Teratogenicity studies have been performed in mice, rats, and rabbits at doses up to 50 times the human dose and have revealed no evidence of harm to the fetus due to sucralfate. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when sucralfate is administered to a nursing woman.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS
Adverse reactions to sucralfate in clinical trials were minor and only rarely led to discontinuation of the drug. In studies involving over 2,500 patients, adverse effects were reported in 121 (4.7%). Constipation was the most frequent complaint (2.2%). Other adverse effects, reported in no more than one of every 350 patients, were diarrhea, nausea, gastric discomfort, indigestion, dry mouth, rash, pruritus, back pain, dizziness, sleepiness, and vertigo.

DOSAGE AND ADMINISTRATION
The recommended adult oral dosage for duodenal ulcer is 1 gm four times a day on an empty stomach.

Antacids may be prescribed as needed for relief of pain but should not be taken within one-half hour before or after sucralfate.

While healing with sucralfate may occur during the first week or two, treatment should be continued for 4 to 8 weeks unless healing has been demonstrated by x-ray or endoscopic examination.

HOW SUPPLIED
CARAFATE (sucralfate) 1-gm pink tablets are supplied in bottles of 100 and in Unit Dose Identification Paks of 100. The tablets are embossed with MARION/1712. Issued 3/84

References:
1. Korman MG, Shaw RG, Hansky J, et al: *Gastroenterology* 80:1451-1453, 1981.
2. Korman MG, Hansky J, Merrett AC, et al: *Dig Dis Sci* 27:712-715, 1982.
3. Brandstaetter G, Kratochvil P: *Am J Med* 79(suppl 2C):36-38, 1985.
4. Marks IN, Wright JP, Gilinsky NH, et al: *J Clin Gastroenterol* 8:419-423, 1986.
5. Lam SK, Hui WM, Lau WY, et al: *Gastroenterology* 92:1193-1201, 1987.

Another patient benefit product from
PHARMACEUTICAL DIVISION
MARION
LABORATORIES INC.
KANSAS CITY MO 64137

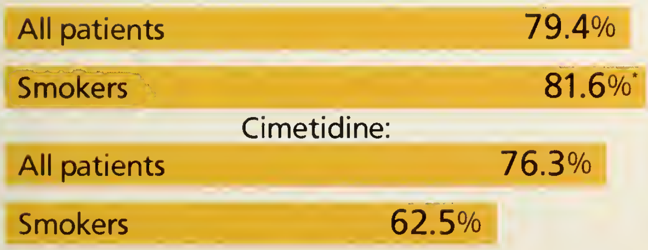
1594H7

Ulcer therapy that won't yield, even to smoking

What do you do for duodenal ulcer patients who should stop smoking, but won't? Both cimetidine[1] and ranitidine[2] have been shown less effective in smokers than nonsmokers.

Choose CARAFATE® (sucralfate/Marion). Two recent studies show Carafate to be as effective in smokers as nonsmokers.[3,4] A difference further illustrated in a 283-patient study comparing sucralfate to cimetidine[5]:

Ulcer healing rates:
(at four weeks of therapy)[5]



*Significantly greater than cimetidine smoker group ($P < .05$).

Carafate has a unique, nonsystemic mode of action that enhances the body's own ulcer healing ability and protects the damaged mucosa from further injury.

When your ulcer patient is a smoker, prescribe the ulcer medication that won't go up in smoke: safe, nonsystemic Carafate.

Nothing works like

CARAFATE®
sucralfate/Marion

Please see adjoining page for references and brief summary of prescribing information

1594H7

There's never been a better time for her...

and PREMARIN®

Proven benefits beyond relief of vasomotor symptoms

No other estrogen proven effective for osteoporosis

Only conjugated estrogens tablets have established efficacy in both osteoporosis[1] and vasomotor symptoms* at 0.625 mg/day. No other estrogen, oral or transdermal, has established clinical evidence or minimum effective dose in both indications.

No estrogen proven safer

PREMARIN is the most extensively tested estrogen, with an unsurpassed record of long-term safety.
And clinical evidence shows a significantly reduced risk of endometrial hyperplasia when cycled with a progestin.[2]

PREMARIN®
(conjugated estrogens tablets)

Most trusted for more reasons

*PREMARIN is indicated for moderate-to-severe vasomotor symptoms.

Please see following page for brief summary of prescribing information.

For moderate-to-severe vasomotor symptoms and for osteoporosis

PREMARIN®
(conjugated estrogens tablets)

PREMARIN 0.3
PREMARIN 0.625
PREMARIN 0.9
PREMARIN 1.25
PREMARIN 2.5

0.3 mg 0.625 mg 0.9 mg 1.25 mg 2.5 mg

The appearance of these tablets is a trademark of Ayerst Laboratories.

For atrophic vaginitis

PREMARIN®
(conjugated estrogens)

Vaginal Cream
0.625 mg/g

Premarin®
(conjugated estrogens)
VAGINAL CREAM

BRIEF SUMMARY *(FOR FULL PRESCRIBING INFORMATION AND PATIENT INFORMATION, SEE PACKAGE CIRCULARS.)*

PREMARIN® Brand of conjugated estrogens tablets, USP
PREMARIN® Brand of conjugated estrogens Vaginal Cream, in a nonliquefying base

> 1 ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA
> Three independent, case-controlled studies have reported an increased risk of endometrial cancer in postmenopausal women exposed to exogenous estrogens for more than one year This risk was independent of the other known risk factors for endometrial cancer These studies are further supported by the finding that incidence rates of endometrial cancer have increased sharply since 1969 in eight different areas of the United States with population-based cancer reporting systems, an increase which may be related to the rapidly expanding use of estrogens during the last decade The three case-controlled studies reported that the risk of endometrial cancer in estrogen users was about 4 5 to 13 9 times greater than in nonusers The risk appears to depend on both duration of treatment and on estrogen dose In view of these findings, when estrogens are used for the treatment of menopausal symptoms, the lowest dose that will control symptoms should be utilized and medication should be discontinued as soon as possible When prolonged treatment is medically indicated, the patient should be reassessed on at least a semi-annual basis to determine the need for continued therapy Although the evidence must be considered preliminary, one study suggests that cyclic administration of low doses of estrogen may carry less risk than continuous administration, it therefore appears prudent to utilize such a regimen Close clinical surveillance of all women taking estrogens is important In all cases of undiagnosed persistent or recurring abnormal vaginal bleeding, adequate diagnostic measures should be undertaken to rule out malignancy There is no evidence at present that "natural" estrogens are more or less hazardous than "synthetic" estrogens at equi-estrogenic doses
> 2 ESTROGENS SHOULD NOT BE USED DURING PREGNANCY
> The use of female sex hormones, both estrogens and progestogens, during early pregnancy may seriously damage the offspring It has been shown that females exposed in utero to diethylstilbestrol, a nonsteroidal estrogen, have an increased risk of developing, in later life, a form of vaginal or cervical cancer that is ordinarily extremely rare This risk has been estimated as not greater than 4 per 1,000 exposures Furthermore, a high percentage of such exposed women (from 30% to 90%) have been found to have vaginal adenosis, epithelial changes of the vagina and cervix Although these changes are histologically benign, it is not known whether they are precursors of malignancy Although similar data are not available with the use of other estrogens, it cannot be presumed they would not induce similar changes Several reports suggest an association between intrauterine exposure to female sex hormones and congenital anomalies, including congenital heart defects and limb-reduction defects One case-controlled study estimated a 4 7-fold increased risk of limb-reduction defects in infants exposed in utero to sex hormones (oral contraceptives, hormone withdrawal tests for pregnancy, or attempted treatment for threatened abortion) Some of these exposures were very short and involved only a few days of treatment The data suggest that the risk of limb-reduction defects in exposed fetuses is somewhat less than 1 per 1,000 In the past, female sex hormones have been used during pregnancy in an attempt to treat threatened or habitual abortion. There is considerable evidence that estrogens are ineffective for these indications, and there is no evidence from well-controlled studies that progestogens are effective for these uses If PREMARIN is used during pregnancy, or if the patient becomes pregnant while taking this drug, she should be apprised of the potential risks to the fetus, and the advisability of pregnancy continuation

DESCRIPTION: PREMARIN (conjugated estrogens, USP) contains a mixture of estrogens, obtained exclusively from natural sources, blended to represent the average composition of material derived from pregnant mares' urine It contains estrone, equilin, and 17α-dihydroequilin, together with smaller amounts of 17α-estradiol, equilenin, and 17α-dihydroequilenin as salts of their sulfate esters Tablets are available in 0 3 mg, 0 625 mg, 0 9 mg, 1 25 mg, and 2 5 mg strengths of conjugated estrogens. Cream is available as 0 625 mg conjugated estrogens per gram

INDICATIONS AND USAGE: PREMARIN (conjugated estrogens tablets, USP) Moderate-to-severe *vasomotor* symptoms associated with the menopause (There is no evidence that estrogens are effective for nervous symptoms or depression without associated vasomotor symptoms and they should not be used to treat such conditions) Osteoporosis (abnormally low bone mass) Atrophic vaginitis Kraurosis vulvae Female castration

PREMARIN (conjugated estrogens) Vaginal Cream is indicated in the treatment of atrophic vaginitis and kraurosis vulvae

PREMARIN HAS NOT BEEN SHOWN TO BE EFFECTIVE FOR ANY PURPOSE DURING PREGNANCY AND ITS USE MAY CAUSE SEVERE HARM TO THE FETUS (SEE BOXED WARNING)

Concomitant Progestin Use: The lowest effective dose appropriate for the specific indication should be utilized Studies of the addition of a progestin for 7 or more days of a cycle of estrogen administration have reported a lowered incidence of endometrial hyperplasia Morphological and biochemical studies of the endometrium suggest that 10 to 13 days of progestin are needed to provide maximal maturation of the endometrium and to eliminate any hyperplastic changes. Whether this will provide protection from endometrial carcinoma has not been clearly established There are possible additional risks which may be associated with the inclusion of progestin in estrogen replacement regimens. (See PRECAUTIONS) The choice of progestin and dosage may be important, product labeling should be reviewed to minimize possible adverse effects

CONTRAINDICATIONS: Estrogens should not be used in women (or men) with any of the following conditions 1 Known or suspected cancer of the breast except in appropriately selected patients being treated for metastatic disease 2 Known or suspected estrogen-dependent neoplasia 3 Known or suspected pregnancy (see Boxed Warning) 4 Undiagnosed abnormal genital bleeding 5 Active thrombophlebitis or thromboembolic disorders 6 A past history of thrombophlebitis, thrombosis, or thromboembolic disorders associated with previous estrogen use (except when used in treatment of breast or prostatic malignancy)

WARNINGS: Estrogens have been reported to increase the risk of endometrial carcinoma (see Boxed Warning). However, a recent large, case-controlled study indicated no increase in risk of breast cancer in postmenopausal women A recent study has reported a 2- to 3-fold increase in the risk of surgically confirmed gallbladder disease in women receiving postmenopausal estrogens.

Adverse effects of oral contraceptives may be expected at the larger doses of estrogen used to treat prostatic or breast cancer or postpartum breast engorgement, it has been shown that there is an increased risk of thrombosis in men receiving estrogens for prostatic cancer and women for postpartum breast engorgement Users of oral contraceptives have an increased risk of diseases, such as thrombophlebitis, pulmonary embolism, stroke, and myocardial infarction Cases of retinal thrombosis, mesenteric thrombosis, and optic neuritis have been reported in oral contraceptive users. An increased risk of postsurgery thromboembolic complications has also been reported in users of oral contraceptives If feasible, estrogen should be discontinued at least 4 weeks before surgery of the type associated with an increased risk of thromboembolism, or during periods of prolonged immobilization. Estrogens should not be used in persons with active thrombophlebitis, thromboembolic disorders, or in persons with a history of such disorders in association with estrogen use They should be used with caution in patients with cerebral vascular or coronary artery disease Large doses (5 mg conjugated estrogens per day), comparable to those used to treat cancer of the prostate and breast, have been shown to increase the risk of nonfatal myocardial infarction, pulmonary embolism, and thrombophlebitis When doses of this size are used, any of the thromboembolic and thrombotic adverse effects should be considered a clear risk

Benign hepatic adenomas should be considered in estrogen users having abdominal pain and tenderness, abdominal mass, or hypovolemic shock Hepatocellular carcinoma has been reported in women taking estrogen-containing oral contraceptives Increased blood pressure may occur with use of estrogens in the menopause and blood pressure should be monitored with estrogen use A worsening of glucose tolerance has been observed in patients on estrogen-containing oral contraceptives For this reason, diabetic patients should be carefully observed Estrogens may lead to severe hypercalcemia in patients with breast cancer and bone metastases

PRECAUTIONS: Physical examination and a complete medical and family history should be taken prior to the initiation of any estrogen therapy with special reference to blood pressure, breasts, abdomen, and pelvic organs, and should include a Papanicolaou smear As a general rule, estrogen should not be prescribed for longer than one year without another physical examination being performed Conditions influenced by fluid retention, such as asthma, epilepsy, migraine, and cardiac or renal dysfunction, require careful observation Certain patients may develop manifestations of excessive estrogenic stimulation, such as abnormal or excessive uterine bleeding, mastodynia, etc Prolonged administration of unopposed estrogen therapy has been reported to increase the risk of endometrial hyperplasia in some patients Oral contraceptives appear to be associated with an increased incidence of mental depression Patients with a history of depression should be carefully observed Pre-existing uterine leiomyomata may increase in size during estrogen use The pathologist should be advised of estrogen therapy when relevant specimens are submitted If jaundice develops in any patient receiving estrogen, the medication should be discontinued while the cause is investigated Estrogens should be used with care in patients with impaired liver function, renal insufficiency, metabolic bone diseases associated with hypercalcemia, or in young patients in whom bone growth is not yet complete If concomitant progestin therapy is used, potential risks may include adverse effects on carbohydrate and lipid metabolism

The following changes may be expected with larger doses of estrogen:

a Increased sulfobromophthalein retention

b Increased prothrombin and factors VII, VIII, IX, and X, decreased antithrombin 3, increased norepinephrine-induced platelet aggregability

c Increased thyroid binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by PBI, T_4 by column, or T_4 by radioimmunoassay Free T_3 resin uptake is decreased, reflecting the elevated TBG, free T_4 concentration is unaltered

d Impaired glucose tolerance

e Decreased pregnanediol excretion

f Reduced response to metyrapone test

g Reduced serum folate concentration.

h Increased serum triglyceride and phospholipid concentration

As a general principle, the administration of any drug to nursing mothers should be done only when clearly necessary since many drugs are excreted in human milk

Long-term, continuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomas of the breast, cervix, vagina, and liver However, in a recent, large case-controlled study of postmenopausal women there was no increase in risk of breast cancer with use of conjugated estrogens

ADVERSE REACTIONS: The following have been reported with estrogenic therapy, including oral contraceptives: breakthrough bleeding, spotting, change in menstrual flow, dysmenorrhea, premenstrual-like syndrome, amenorrhea during and after treatment, increase in size of uterine fibromyomata, vaginal candidiasis, change in cervical erosion and in degree of cervical secretion, cystitis-like syndrome, tenderness, enlargement, secretion (of breasts), nausea, vomiting, abdominal cramps, bloating, cholestatic jaundice, chloasma or melasma which may persist when drug is discontinued, erythema multiforme, erythema nodosum, hemorrhagic eruption, loss of scalp hair, hirsutism; steepening of corneal curvature, intolerance to contact lenses, headache, migraine, dizziness, mental depression, chorea, increase or decrease in weight, reduced carbohydrate tolerance, aggravation of porphyria, edema, changes in libido.

ACUTE OVERDOSAGE: May cause nausea, and withdrawal bleeding may occur in females

DOSAGE AND ADMINISTRATION:

PREMARIN® Brand of conjugated estrogens tablets, USP

1 *Given cyclically for short-term use only* For treatment of moderate-to-severe *vasomotor* symptoms, atrophic vaginitis, or kraurosis vulvae associated with the menopause (0 3 mg to 1 25 mg or more daily). The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible Administration should be cyclic (eg, three weeks on and one week off) Attempts to discontinue or taper medication should be made at three- to six-month intervals

2 *Given cyclically* Osteoporosis Female castration Osteoporosis —0 625 mg daily Administration should be cyclic (eg, three weeks on and one week off) Female castration—1 25 mg daily, cyclically Adjust upward or downward according to response of the patient For maintenance, adjust dosage to lowest level that will provide effective control

Patients with an intact uterus should be monitored for signs of endometrial cancer and appropriate measures taken to rule out malignancy in the event of persistent or recurring abnormal vaginal bleeding

PREMARIN® Brand of conjugated estrogens Vaginal Cream

Given cyclically for short-term use only For treatment of atrophic vaginitis or kraurosis vulvae

The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible

Administration should be cyclic (eg, three weeks on and one week off)

Attempts to discontinue or taper medication should be made at three- to six-month intervals

Usual dosage range 2 g to 4 g daily, intravaginally, depending on the severity of the condition

Treated patients with an intact uterus should be monitored closely for signs of endometrial cancer and appropriate diagnostic measures should be taken to rule out malignancy in the event of persistent or recurring abnormal vaginal bleeding

References:

1. Lindsay R, Hart DM, Clark DM The minimum effective dose of estrogen for prevention of postmenopausal bone loss *Obstet Gynecol* 1984,63 759-763 **2.** Studd JWW, Thom MH, Paterson MEL, et al The prevention and treatment of endometrial pathology in postmenopausal women receiving exogenous estrogens, in Pasetto N, Paoletti R, Ambrus JL (eds). *The Menopause and Postmenopause* Lancaster, England, MTP Press Ltd, 1980, chap 13

© 1987 Ayerst Laboratories
All rights reserved

6437/587

Ayerst®
AYERST LABORATORIES
New York, NY 10017

EDITOR'S DESK

by Donald G. Sessions, M.D.
Associate Editor

What kept pressing in was having to look authentically at my commitment, my personal and professional commitment, and it did not look quite as clear-cut as I had seen it in the past.

First AIDS

The phone rang late on a Saturday night several months ago, waking me from an early REM encounter. It was my "problem" resident calling about a patient in the emergency room.

I recalled "Bad News" Bailey from my internship year. He was named that by a jocular attending neurosurgeon who would get a phone call at home from Harry at the hospital: "Joe, this is Harry in the emergency room." "And," Joe would say, "I knew it was *Bad News*."

By now the cobwebs of delta level sleep had cleared. It turned out that a young man with diagnosed AIDS — the active disease and not just the positive serology — had appeared with an ethmoid sinus abscess presenting on the left side of the face. He was febrile and slightly toxic and would need incision and drainage.

As is my usual ploy when faced with the possibility of leaving my comfortable bed in the middle of the night, I questioned the young house doctor. Surely, I thought, he hasn't done a CAT scan yet at this time of night. But, alas, the x-ray had been taken and read and the patient had been checked by a senior resident. There was no getting around it. I'd have to go in.

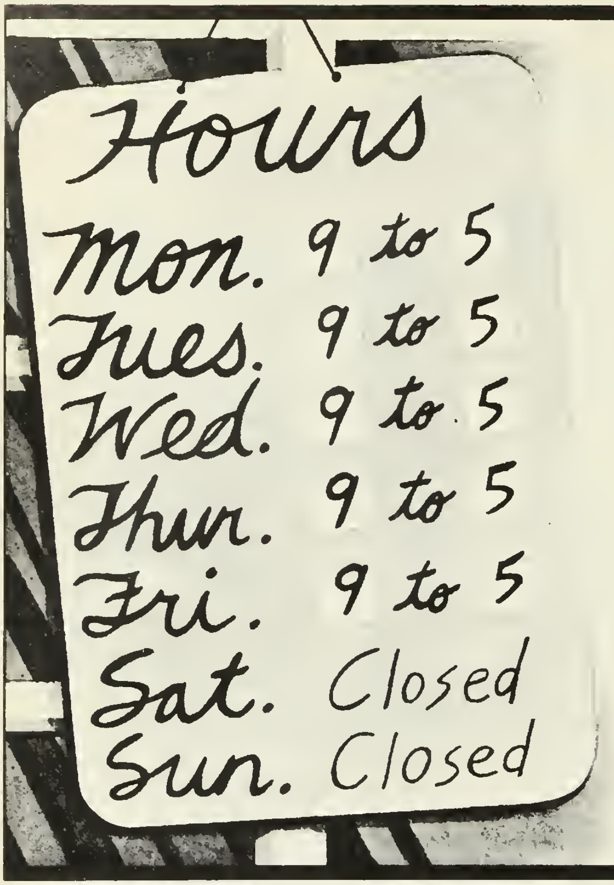
Then I looked squarely at the real issue. I usually don't like to go in at night but this time — to see an AIDS patient with active disease — I *really* didn't want to go in. So I pictured an abscess with active little viral killers, trapped much like the cartoon devil with a pitchfork in the stomach of the classic Pepto Bismol advertisement; this attempt at levity was unsuccessful. The real issue remained: for the first time ever, I was so concerned about a disease process, that I **really** did not want to go in.

As I drove through the deserted streets to the hospital, I was able to interact with myself about the issue under the issue. My initial reaction was just that, a stimulus-response survival reaction. What bothered me was that, no kidding, I really did not want to go see this stranger with the killer disease. What kept pressing in was having to look authentically at my commitment, my personal and professional commitment, and it did not look quite as clear-cut as I had seen it in the past.

I have always prided myself on keeping up with the current literature not only in my field but also in specific areas of general medicine. Certainly I should have been up-to-date on AIDS information, but the present literature was so voluminous as to be overwhelming. There did not seem to be a concise primer for physicians. I just knew that if you got "it" you died. And the real issue kept surfacing. *Is your commitment to yourself or to the patient or to your family or just what?*

I had grown up medically in the era of some real bad diseases. As a young physician I had visited the leprosarism on the island of Molokai. I had done bronchoscopies on patients with active tuberculosis at the Middle Tennessee Tuberculosis Sanatarium. I had

Continued on page 585



Accidents Don't Keep Regular Hours. Neither Should Your Personal Accident Insurance.

And when they do, they can be costly. That's why the MSMA sponsors an insurance plan for members . . . one that offers attractive coverage at a favorable price.

Accidents occur everywhere — on planes — on buses or other public conveyances — in cars — on the job — in the home — in sports activities.

All members under age 65 are eligible. Your spouse and children (to age 23) can be covered if you apply. Coverage is provided without regard to health history.

The plan is underwritten by Commercial Insurance Company, Newark, N.J.

A NEW, IMPROVED program is now available to you!

Coverage has been broadened and premiums reduced.

Up to $200,000 coverage available for members — Spouse and Children may also be insured.

For full particulars, the Administrators invite you to call or write today.

detach here and mail

Mail to: James
FRED.S.JAMES&CO.OFMISSOURI,INC.

Eastern Missouri Administrator
231 S. Bemiston
Clayton, MO 63105
(314) 863-7777

Western Missouri Administrator
2420 Pershing Road
Kansas City, MO 64108
(816) 842-6670

Please send me a brochure and application for the Missouri State Medical Association sponsored plan(s) I've checked below. I understand there is absolutely no obligation.

☐ Personal Disability Income
☐ Office Overhead Expense
☐ Hospital Indemnity Plan
☐ Accidental Death & Dismemberment Insurance

Name ____________________

Address ____________________

City ____________ State ____________ ZIP ____________

Phone: ( ) ____________ Best time to call: ____________

Auxiliary Message

by Sandy Mitchell
MSMAA President

It is such an honor to be part of a federation working solely for the advancement and betterment of medicine.

Does your spouse know the benefits of Auxiliary membership?

When asked about the benefits of membership in the Missouri State Medical Association Auxiliary one that is always mentioned is our coalition with the American Medical Association Auxiliary and the multitude of advantages this affords our members. Having recently attended the AMA Auxiliary Annual convention in Chicago as Presidential Delegate, I feel I must share with you the opportunities your spouse may be missing if MSMAA and AMAA are not household acronyms.

Delegates for the AMAA Convention are elected annually at the Missouri State Medical Association Auxiliary Convention. Delegate numbers are determined by Auxiliary membership and this year Missouri proudly elected an additional delegate due to a membership increase. This brought our total delegate count to six with five Alternate Delegates. Mrs. Stephen Vilmer, Mrs. Gary Dyer, Mrs. Charles Barbee, Mrs. David Perkins and Mrs. Tom Sparkman occupied seats on the floor of the House of Delegates. Alternates, Mrs. William Huffaker, Mrs. Robert Willcoxon, Mrs. Robert Wankum and Mrs. A. J. Campbell, attended sessions on how the Auxiliary works in other states. Reference Committees met on such topics as federated membership, restructuring of regions, education on hazards of all terrain vehicles (ATV's), support for smoke-free health care facilities, participation in AMA adolescent health initiative, education of importance of child water safety, education for prevention of elder abuse, continuation of seatbelt education and support of mandatory legislation, and promotion of AIDS education for youth.

Guest speakers at the session were syndicated columnist Mark Shields, talk show hostess Oprah Winfrey, John J. Coury, Jr., M.D., President AMA, Robert E. McAfee, M.D., President AMA Education and Research Foundation and The Honorable Donald H. Rumsfeld, Former Secretary of Defense.

One of the greatest learning experiences occurs in the House of Delegates when each state gives a two-minute report of their year. Ideas for new projects are gained and reinforcement of ideas takes place at this time.

In addition to all the learning, Auxiliary members find this a very special time to become acquainted with friends from all over the country. Special friendships are established and interaction among states develops.

Upcoming AMA Auxiliary functions include: legislative training sessions, political action meetings, leadership workshops, and Confluence I and II. Confluence I & II, held

Continued on page 585

Where you refer your rehab patient can make a lifetime of difference

Your primary concern is rehabilitating the victim of serious injury or physical impairment to the maximum degree possible.

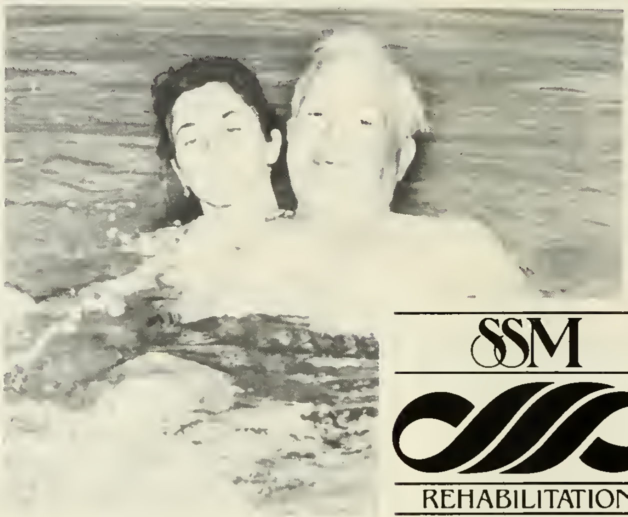
This is our *only* concern.

At SSM Rehab, we provide comprehensive medical rehabilitation services to recovering adults and adolescents, including several programs not available elsewhere in this region.

Our rehabilitation professionals design a specific program for each patient you refer, in close consultation with you. We then carry out this program with one thought in mind: to realize this human being's fullest potential for recovery, as soon as possible.

Call **314/862-9162** or write now for complete information about our services. Know in advance what we can do at SSM Rehab...

Where the potential of tomorrow is realized today



SSM
REHABILITATION
INSTITUTE

St. Joseph Health Center/St. Charles, MO 63301 • St. Mary's Health Center/St. Louis, MO 63117

An Equal Opportunity/Affirmative Action Employer • Services provided on a non-discriminatory basis

A MEMBER OF THE SSM HEALTH CARE SYSTEM

Malpractice Insurance

Michael Howard Ruffin

Licensed Insurance Broker
Professional Liability Insurance Consultant

818 Olive St., Suite 958
St. Louis, Missouri 63101
Office: (314) 421-5754

Professional Insurance Service
To The Medical Profession
In Missouri

Omaha Mid-West Clinical Society

55th Annual Postgraduate Assembly

October 26, 27 and 28, 1987

Red Lion Inn
Omaha, Nebraska

For Information Contact

Lorraine Seibel
Omaha Mid-West Clinical Society
7363 Pacific Street, Suite 205-B
Omaha, Nebraska 68114
(402) 397-1443

PRACTICE MANAGEMENT

by George S. Conomikes

For most practitioners, the purchase of a computer is often the largest dollar decision that will be made in a practice career.

Computers

Unlike medications which grace the pages and display booths of medical journals and medical meetings, the substances of computers are not easy to describe. Plus, I can assure you, the side effects of the wrong computer decision can be considerable.

For most practitioners the purchase of a computer is often the largest dollar decision that will be made in a practice career, since most computers are in the $50,000-plus category. I will define what's out there in computerization and indicate the types of applications to your practice you should research. This is sometimes called "software availability."

What's Available to the Physician?

Service Bureaus — Batch Processing

This is the most common mode of computerization. Your charge tickets are batched and delivered (by mail or carrier service) to the computerized service bureau. There, your data is key-punched into their computer. The service bureau provides the following services:

- Patient billing — monthly.
- Patient insurance forms — usually in conjunction with the patient bills.
- Patient status reports — weekly or bi-weekly.
- Management reports — monthly.

Advantages: Are useful for low-volume users (less than 1,500 statements per month). No capital outlay. Generally costs 75¢-$1.25 per statement including insurance work and reports.

Disadvantages: There is a time-lag from when the charge tickets leave your office until you have updated status on patients.

Service Bureaus — On-line Interactive

This type of service entered the marketplace about 1975. In this situation, your practice has hardware on your premises linked by phone-line to the service bureau computer. Your hardware includes:

A keyboard that is useful for making inquiries as well as typing in data.
A screen (actually a cathode ray tube — CRT — display) which displays stored data upon inquiry or shows data as you type it on the keyboard.
A printer (slow speed) which allows you to print an on-the-spot insurance form, or a patient bill, if needed.

The service bureau does all the billing and reports as listed above in "Batch Processing." Cost per active patient activity is about 50¢ per account, plus postage and includes statements, insurance forms, mailings and all reports.

Advantages: There is no time-lag in having current status on all patients. Your own typing of patient activities may be more accurate and allow you to catch errors faster than is the case with batch processing.

Disadvantages: Monthly cost for having the on-premises hardware is about $400 to $500 plus monthly phone line charges of $60 or more. This arrangement is usually not

Continued on page 585

Join a medical team that Guards your community and state.

As a physician in the Army National Guard, you can broaden your medical experience and life experience. You'll start as an officer, enjoying all the privileges and prestige rank can bring. And you can attend professionally approved courses at no cost. Best of all, you'll be helping people in your state and local community. People who really need your special skills. For more information, contact your Army Guard recruiter.

Captain
JOE SEILING
314-443-1737

Staff Sergeant
DAN KIRTON
816-922-3226

Toll Free In Missouri
1-800-392-2173

The Guard is America at its best.

MISSOURI
ARMY NATIONAL GUARD

CASH FLOW HEADACHES?

TAKE TWO MINUTES AND CALL US IN THE MORNING.

At best, poor cash flow can be a real pain. At worst, it can cripple your practice. Now fortunately, there's a cure: the Medical Information Management System (MIMS).

It's IBM compatible, multi-user software designed with your needs in mind.

It can bill patients immediately, and file insurance claims electronically. This feature alone cuts payment time from months to as few as four days.

If you're suffering from cash flow headaches, take two minutes and call us toll-free. We'll send you our informative brochure and help you improve your financial health.

1-800-643-8365

MIMS
Medical Information Management Systems

D.O.C., Inc.
P.O. Box 2476
Little Rock, AR 72203

■ Editor's Desk

Continued from page 579

treated patients with active syphilis at City Hospital. Yet somehow AIDS had created a whole new level of concern and fear.

What surfaced was a tremendous respect and admiration and love for the physicians of previous eras. They routinely treated patients with deadly diseases for which there was at the time no cure. I perceived the tremendous honor and privilege that it is to do what we do and obtained a clear sense of the responsibility that it creates.

As I walked from the car to the hospital, I considered what I needed to do. Certainly I would double glove and double mask, and wear glasses for the incision and drainage procedure. I remembered that this virus appears to be killed by hydrogen peroxide, and bleach and spermacide. Yes, I thought in the coming months maybe I could even find a new use for those little latex jobbers with spermacide in the reservoir tip. ■

■ Auxiliary Message

Continued from page 581

in Chicago, give county presidents-elect an opportunity for intensive training in Auxiliary responsibility as well as education on topics of national concern.

This year Missouri will have eight county presidents-elect attend what is considered by many members to be the most educationally-intensive meeting they have ever attended. The caliber of speakers is most impressive and the work sessions are inspiring to all in attendance.

It is such an honor to be part of a federation working solely for the advancement and betterment of medicine.

The MSMA Auxiliary once again thanks the Missouri State Medical Association for its support and encouragement in fulfilling its goals. ■

■ Practice Management

Continued from page 583

feasible for less than 1,000 to 1,500 statements per month of activity.

Contract Accounts Receivable Management

This service is available primarily in large metropolitan areas. It essentially involves taking all the paperwork out of the medical office and processing it at the contractor's location. It is designed to provide all the financial paperwork described for batch processing and on-line interactive systems plus much of the following:

- Follow-up on accounts outstanding with third-party payors and patients.
- Accounts payable and payroll.
- Bookkeeping — posting to the general ledger.
- Training of personnel.
- Providing management counsel and advice to the physician(s).
- Patient business calls regarding statements.

Costs usually are in the range of 6-16% of practice collections which includes all mailing and postage costs.

Advantages: Reduces personnel and paperwork at the practice. Patient business calls go directly to contractor, reducing phone traffic. There is continuous management counsel and you'll create savings on space for clerical personnel. No investment in hardware is required. The fee is fixed and depends on practice volume.

Disadvantages: Not suitable for small (2 employee) practices with low volume. Only available in a few locales currently.

In-House Mainframe Computers

This is perhaps the biggest growth area in computers due to the decrease in the costs of micro-and-mini-computers. It is now possible to purchase your own in-house computer, with a software package, for as little as $30,000. Other, limited systems, are available for even less.

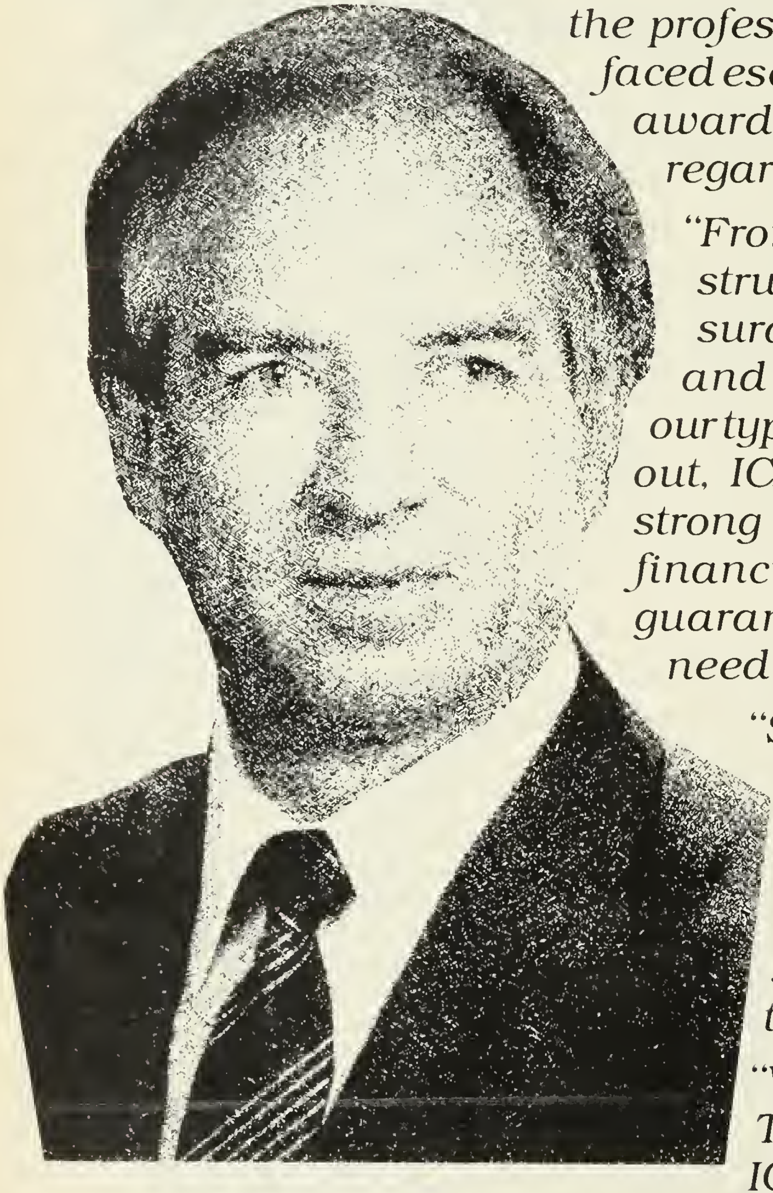
This system will provide all the services listed for on-line-batch-processing. However, all billing, insurance processing and production of reports is done at the practice. Costs: in addition to the purchase price, there is a maintenance cost. This monthly charge is usually 1% of the combined hardware and software purchase price.

Advantages: Price and maintenance costs are fixed over the life of the hardware. Potential long-run cost savings are made more attractive by possible added tax advantages.

Disadvantages: Up front costs, conversion, space and air conditioning needs, training, paper inventory, machine noise, vendor survival.

Next month I will cover: how to select from the computer alternates facing you; steps to take in the selection process; and how to screen out unqualified suppliers. ■

"We Understand Your Frustration."



DOYLE N. ROGERS, MD, FCAP, JD
Chairman, President, CEO

"You don't need to be told how tough the last few years have been in the professional liability arena. You've faced escalating premiums, escalating awards and escalating frustrations, regardless who insures you.

"From our side of the table, we've struggled with diminishing reinsurance, exhorbitant claims costs and an industry-wide change in our type of insurance policy. Throughout, ICA has strived to maintain a strong balance sheet, because our financial stability is your only real guarantee that we'll be here if you need us.

"So, we made tough and sometimes, unpopular, decisions. But the bottom line is this: We've positioned ourselves as a strong force in the professional liability business, for today and tomorrow.

"We'll be here if you need us. That's what we both want. At ICA, we're committed to protecting your practice."

ICA INSURANCE
CORPORATION
OF AMERICA
Houston, Texas (713) 871-8100
The Professional Liability Specialist

Synchronous Renal and Pancreatic Transplantation

Experience in Type I Diabetics with End-Stage Renal Disease

Paul J. Garvin, M.D., Kathleen Carney, PA-C, Marco Castaneda, M.D., and Judy Hoff, R.N.
St. Louis, Missouri

One center's two-year experience with dual pancreatic-renal transplantation in Type I diabetics is reviewed. As experience is gained, the authors note, the protocol for patient management continues to be modified. Each modification has helped improve both graft and patient survival.

The concept of pancreatic transplantation as a treatment option for diabetics existed as early as 1927, when several investigators demonstrated the technical feasibility of pancreatic transplantation, and the ability of the allotransplanted pancreas to lower the blood sugar in an experimental setting.[1, 2] The first clinical pancreatic transplant was performed in 1966,[3] and over the subsequent 11 years, 57 pancreatic transplants have been reported.[4]

Since 1977, more than 900 pancreas transplants have been performed worldwide. More than 400 of these were performed within the past two years,[5] indicating the rapid emergence of this procedure as a treatment option in selected Type I diabetics. Despite the increased use of the technique, graft survival remains inferior to that of other solid organ transplants, and perioperative mortality, related to complications of the pancreatic exocrine system, remains significant. For these reasons, most centers that perform pancreatic transplantation restrict the procedure to Type I diabetics who are also candidates for renal transplantation, and who thus require long-term immunosuppression. After extensive background work in the laboratory, we initiated a clinical trial of combined renal and segmental pancreatic transplantation in select Type I diabetics. We report our experience with this procedure over a two-year period, with an emphasis on evolution of our protocol.

Patients and Methods

Since institution of this protocol on the Transplant Unit, John Cochran Veterans Administration Medical Center, between January 1985 and January 1987, fifty-two patients have been evaluated for combined renal and segmental pancreatic transplantation. An indication of the high-risk nature of this population is the fact that 11 patients have died awaiting transplantation, and nine patients have been temporarily or permanently withdrawn from the waiting list due to symptomatic progression of cerebrovascular disease (one), cardiac disease (six), or peripheral vascular disease (two). To date, 25 patients (17 male, 8 female), ranging in age from 25 to 47 years (mean = 36.3 years), have received dual allografts.

The duration of insulin-dependent diabetes was 14 to 35 years (mean = 22 years). Twenty-three patients had end-stage renal disease secondary to diabetic nephropathy and were on maintenance hemodialysis (17) or continuous ambulatory peritoneal dialysis (six), from one to 96 months (mean = 9.0

months) prior to transplantation. The remaining two patients received transplants prior to initiating dialysis. In these patients, other secondary complications of diabetes were frequent and included neuropathy (mild = 15, moderate = 10), retinopathy (mild = 12, severe = 13, with five patients being totally blind), and overt cardiac disease (three).

All patients received at least one random third-party blood transfusion within six months of transplantation as part of routine preparation for transplantation. Recipients were selected on the basis of a negative lymphocytotoxicity cross-match, using current serum, with a minor emphasis on HLA, A, B and DR matching. In each case, both organs came from the same donor. The organs underwent cold storage preservation after Collin's C-4 flush. The pancreatic grafts consisted of the body and tail. The spleen was left attached to use as a "handle" during engraftment. The graft vessels were the splenic artery and vein, or the celiac artery and portal vein. The donor iliac artery and vein are interposed in two cases for increased vessel length. All pancreatic grafts were placed extraperitoneally using end-to-side anastomosis to the iliac vessels. After restoring pancreatic blood flow, the renal allograft was placed in the opposite iliac fossa in a standard fashion and a ureteroneocystostomy was accomplished. A donor splenectomy was then performed, followed by a pancreaticocystostomy with a stent. Prior to June, 1986, this stent was internal. Due to a high incidence of local complications (urinary and/or pancreatic fistulae), we now use a temporary (six weeks) external stent for complete exocrine diversion. Bilateral closed drainage systems were used in all cases.

All patients received cyclosporine immunosuppression. Prior to May 1986, our protocol consisted of cyclosporine (12.5 mg/kg/day) and prednisone (0.75 mg/kg/day). Since that time, all patients have received triple drug therapy consisting of cyclosporine (6 mg/kg/day), azathioprine (1.5 mg/kg/day) and prednisone (0.75 mg/kg/day). At seven days post-transplant, the steroid dosage was tapered to achieve a dosage of 15-20 mg daily at one month. Azathioprine dosage was reduced only if leukopenia (WBC $< 5{,}000$) developed. The cyclosporine dosage was tapered in patients with suspected toxicity or elevated trough levels of cyclosporine.

Rejection episodes were treated with local irradiation (600 rads in four divided doses for each graft) and doubling of the steroid dose. Systemic cephalosporins were administered preoperatively and continued postoperatively for three to five days. Beginning in November 1985, postoperative anticoagulation with subcutaneous heparin (5,000 units every 12 hours) was used until graft failure or hospital discharge.

Techniques to assess pancreatic graft function included fasting blood sugar measurements, urinary and serum amylase levels, and radioimmunoassays for insulin, C-peptide and glucagon. Patients with an external stent or evidence of a pancreatic fistula from the drainage catheters had serial analyses of the drainage for amylase and creatinine. Radiologic assessments included sequential perfusion scanning with Tc-99, glucoheptonate and sulfur colloid, ultrasonography, and computed tomography. Patients with functioning pancreata underwent an intravenous glucose tolerance test (0.5 gm/kg) prior to hospital discharge. The effect of successful pancreatic transplantation on the secondary complications of diabetes was evaluated by serial nerve conduction tests, retinal photography/function tests and radionuclide gastric emptying studies.

In four patients with pancreata that have functioned more than six months, nerve conduction tests, retinal photography and function tests, and radionuclide gastric emptying studies demonstrate improvement in secondary diabetic complications

Patients not requiring dialysis in the first post-transplant week were defined as having immediate function of the kidney. Patients who achieved insulin independence within six hours of operation were defined as having immediate pancreatic allograft function. The diagnosis of rejection was made on the basis of our standard clinical and diagnostic criteria of renal allograft rejection. A correlation of pancreatic functional parameters with renal function during rejection was accomplished in an attempt to establish criteria for pancreatic allograft rejection.

Results

Graft and Patient Survival

Pancreatic allograft warm ischemia time ranged from 0 to 4 minutes and preservation time from 2.9 to 7.5 hours. One patient died of a myocardial infarction in the immediate postoperative period. In 20 of the remaining 24 patients, the kidney functioned immediately. All of the pancreatic grafts functioned immediately. Pancreatic graft failure occurred within the first week in five patients from vascular thrombosis (three), hemorrhagic pancreatitis (one) and acute rejection (one). Excluding the patient with acute rejection, early pancreatic allograft failure was not associated with loss of renal allograft function. In addition to the perioperative cardiac death, four patients died between one to six weeks postoperatively (three of sepsis; one following rupture of the donor splenic artery), and one patient died at eight months post-transplant of complications of peripheral vascular disease. At the time of death, three renal and two pancreatic grafts were functioning. Three patients developed irreversible renal allograft rejection at one week, four months and seven months post-transplant and have returned to dialysis. Two of these patients had coexistent irreversible pancreatic allograft rejection. The third patient had had earlier loss of pancreas due to vascular thrombosis.

Currently, 16 kidneys and 13 pancreata are functioning from one to 23 months (mean = 8.7 months) post-transplant. In the patients with functioning kidneys, serum creatinine levels range from 0.8 to 4.5 mg% (mean = 1.6 mg%). Ten of the 13 patients are insulin-independent with fasting blood glucose levels of 47 mg% to 129 mg% (mean = 78 mg%) and fasting insulin levels of 11.7 to 92.5 uU/ml (mean = 45.7 uU/ml; normal = 3.2 − 21.2). The remaining three patients require a small dose of maintenance exogenous insulin despite normal fasting C-peptide levels (2.0, 6.5, 3.3 Ng/ml; normal = 0.5 − 3.0) and adequate perfusion on pancreatic allograft scan. In four patients with pancreata that have functioned more than six months, nerve conduction tests, retinal photography and function tests, and radionuclide gastric emptying studies demonstrate improvement in secondary diabetic complications.

As our experience increased, we identified three factors that reduce pancreatic allograft and/or patient survival: 1) splenic artery or vein thrombosis, 2) inadequate control of pancreatic secretions, and 3) coronary artery disease.

In an attempt to minimize the morbidity and mortality of this procedure, we continue to modify our protocol. Postoperative heparin has been used since November 1985, in an attempt to prevent vascular thrombosis. The incidence of this complication has now been reduced from 37.5% (3/8) to 0% (0/17). Our initial technique of pancreaticocystostomy with an internal stent was associated with a high incidence of severe wound sepsis due to urinary and/or pancreatic leaks, leading to prolonged hospitalization or death. Beginning in June 1986, our technique was modified to provide six weeks of external stenting of the pancreatic duct. With this modification, the incidence of severe wound sepsis has been reduced from 40% (6/15) to 10% (1/10). Severe cardiovascular disease is a frequent occurrence in this patient population. Seven of our patients referred for dual allografting died of myocardial infarction before transplantation. Four additional patients died of other complications of diabetes while awaiting transplantation, and one patient died following a perioperative cardiac event. As a result, we adjusted the pretransplant protocol in May 1986 to include screen for coronary artery disease by thallium stress test and/or intravenous dipyridamole testing and, if these are positive, coronary angiograms. Since this modification, six patients have been excluded from transplantation due to severe cardiac or peripheral vascular disease, and 13 patients have undergone dual allografting without cardiac events. As our protocol for dual allografting has evolved, a dramatic reduction in morbidity has occurred in our last 13 patients, with a concurrent increase in early graft (77% renal, 70% pancreatic) and patient (92%) survival.

Discussion

As a natural extension of the enthusiasm for organ replacement therapy that developed in the 1960s, pancreatic transplantation was first performed in diabetic uremic patients at the University of Minnesota in 1966.[3] These transplants were performed in combination with renal transplantation, with the intention of stabilizing or reversing the complications of diabetic microangiopathy. This report stimulated other centers to undertake pancreatic transplantation. By June 30, 1977, 60 transplants in 56 patients had been reported to the Organ Transplant Registry of the American College of Surgeons.[4] In this group, only two patients had functioning allografts for more than one year. In addition, a high incidence of local complications, related either to the duodenal segment in pancreaticoduodenal grafts, or inadequately controlled exocrine secretions in segmental grafts, resulted in an excessive morbidity and mortality. These results prompted most transplant centers to place a moratorium on pancreatic transplantation until the problems peculiar to pancreatic allografting could be resolved in the laboratory. A major focus of this research centered around the identification of a safe and effective method of controlling exocrine secretions. These efforts resulted in two general approaches to pancreatic duct management: ductal occlusion and ductal drainage. Ductal occlusion by ligation or with synthetic polymers, including neoprene, acrylate, silicone or an alcoholic prolamine solution, have been evaluated.[6-9] The goal of these techniques is to minimize the incidence of fistulae and peripancreatic fluid collections. When ductal drainage is used, anastomosis of the pancreatic duct to a Roux-en-Y jejunal segment[10] or the urinary bladder[11] have been the most frequently used techniques. With these techniques, patency of the pancreatic duct is maintained in an attempt to avoid the pancreatitis and late fibrosis that occur with acute ductal occlusion. With ductal drainage, however, anastomotic leaks can occur, causing sepsis due to peripancreatic fluid collections. Despite the numerous techniques for managing exocrine secretions and favorable outcomes in experimental settings, an optimal method has yet to emerge for clinical pancreatic transplantation. A recent report, for example, from the Transplant Registry demonstrated no significant difference in pancreatic allograft survival when duct management methods were compared.[5]

Despite the numerous techniques for managing exocrine secretions and favorable outcomes in experimental settings, an optimal method has yet to emerge for clinical pancreatic transplantation

Another problem identified in the early clinical trials of pancreatic transplantation was a high incidence of thrombosis of the splenic vessels, leading to early graft failure. The thrombosis has been attributed to the marked diminution in splenic blood flow after all the non-pancreatic branches have been ligated during harvest of the pancreatic tail, resulting in turbulent splenic blood flow. Recognition of this complication led Sutherland et al to recommend postoperative anticoagulation.[12] Other authors have recommended technical modifications, including whole pancreas transplants,[13] pancreaticosplenic grafts,[14] or creation of a splenic artery-to-vein fistula.[15] Although these modifications have been successful in an experimental setting, no significant improvement in clinical results has been achieved.

Despite the inability to eliminate these complications, a slow but progressive improvement in the results of clinical pancreatic transplantation has occurred. In addition, enthusiasm for this technique has continued because of increasing evidence that the systemic lesions of diabetes can be prevented by precise regulation of carbohydrate metabolism. Several investigators have now demonstrated that pancreas transplantation in various animal models prevents or minimizes the formation of diabetic lesions in the eye, kidney and peripheral nerves.[16-20] Several clinical reports have also demonstrated an improvement in the secondary complications of diabetes following pancreatic allografting.[14, 21]

With this background, we initiated a clinical trial of pancreas transplantation in select Type I diabetic patients. The selected patients were also candidates for renal transplantation and, therefore, would require immunosuppression with its attendant risks. An additional theoretical advantage to synchronous allografting was that the standard indicators of renal rejection could be used to identify possible pancreatic rejection. In recipients of dual pancreas-renal allografts, our standard immunosuppressive protocol for cadaver kidney recipients was used. Pancreaticocystostomy was chosen as the method of pancreatic ductal drainage, both to avoid the gastrointestinal contamination associated with the Roux-en-Y technique, and to monitor serial urinary amylase levels as an indicator of pancreatic allograft function.

As our experience with this technique increased, several problems were identified that reduced pancreatic allograft and/or patient survival. Early graft failure due to vascular thrombosis occurred in three of our earlier patients. Although the mechanism for this remains unclear, we have modified our protocol to include postoperative subcutaneous heparin. With this approach, no instances of vascular thrombosis have occurred in 17 consecutive patients. A second complication was a high incidence of serious wound problems due to inadequate control of pancreatic exocrine secretions, resulting in significant morbidity and longer hospital stays. In an attempt to reduce the incidence of wound complications, we modified our technique of pancreaticocystostomy to provide temporary external drainage of pancreatic ductal secretions. With this technique, the incidence of severe wound infections and poorly controlled release of pancreatic fluid has been reduced dramatically. In addition to these technical modifications, we have also revised our pretransplant protocol to include a routine screen for coronary artery disease. In patients capable of exercising, a thallium stress test is performed. All other patients undergo intravenous dipyridamole testing with thallium. If the test is positive for ischemic heart disease, coronary angiography is performed. Since this modification, six patients have been temporarily (until bypass surgery) or permanently excluded from transplantation due to the severity of their coronary artery disease. Thirteen consecutive patients have undergone transplantation without cardiac events.

It is evident that, as our experience has increased, a significant improvement in the success of combined renal and pancreatic allografting has occurred. As a result, we now feel that this technique is a therapeutic option for all Type I diabetics with end-stage renal disease who are candidates for renal transplantation. Two additional goals of this clinical trial are still being evaluated. The first is the identification of a predictive index of reversible pancreatic allograft rejection. To date, we have found that fasting insulin and C-peptide levels decrease, and urinary amylase levels increase, within zero to five days of the onset of renal allograft rejection. In addition, radionuclide scanning of the pancreatic allograft at the time of renal rejection indicates delayed washout of glucoheptonate and in-

Pancreaticocystostomy was chosen as the method of pancreatic ductal drainage, both to avoid the gastrointestinal contamination associated with the Roux-en-Y technique and to monitor serial urinary amylase levels as an indicator of pancreatic allograft function

creased accumulation of sulfur colloid. Whether these changes are due to the reduced renal function of rejection, the increased steroids used to treat rejection, graft pancreatitis, or some other variable, remains to be determined.

The second goal is determining whether the insulin independence and euglycemia following successful pancreatic transplantation can stabilize or reverse the secondary complications of diabetes. We have seen improved nerve conduction velocities and retinal function in our long-term successful recipients, but the question of whether the improvement is due to the renal allograft alone has yet to be determined. Once these goals have been achieved, we will evaluate the possibility of isolated pancreatic transplantation in pre-uremic diabetics with a propensity for secondary complications. This study demonstrates the significant systemic complications that arise in diabetic patients referred for dual allografting. The ability to perform pancreatic transplantation in the pre-uremic diabetic could avert some deaths and reduce the systemic damage of diabetes.

References

1. Gayet R, Guillamie M: La regulation de la secretion interne pancreatique par un processus humoral demonstree par des transplantations de pancreas. Experiences sur des animaux normoux. *CR Soc Biol* 1927;97:1613-1614.
2. Houssay BA: Technique de la greffe pancreaticoduodenale au cou. *CR Soc Biol* 1929;100:138-140.
3. Kelly, WD, Lillehei RC, Merkel FK, et al: Allotransplantation of the pancreas and duodenum along with the kidney in diabetic nephropathy. *Surg* 1967;61:827-837.
4. Sutherland DER: Current status of pancreatic transplantation: Registry statistics and an overview. *Trans Proc* 1983;15:1303-1307.
5. Sutherland DER, Kendall D, Goetz FC, et al: Pancreas transplantation. *Surg Clinics of NA* 1986;66:557-582.
6. Kyriakides GK, Arora VK, Lifton J, et al: Porcine pancreatic transplantation. Autotransplantation of duct ligated segments. *J Surg Res* 1976;20:451-460.
7. Dubernard JM, Traeger J, Neyra P, et al: Une nouvelle methode de transplantation pancreatique. I. Effect sur le pancreas du chien de injection intracanalaire de neoprene. *Nouv Press Med* 1978;7:173-176.
8. Little JM, Lauer C, Hogg J: Pancreatic duct obstruction with an acrylate glue. A new method for producing pancreatic exocrine atrophy. *Surg* 1977;81:243-249.
9. Wayand W, Patterman M, Umlauft M: Transplantation of Ethibloc-occluded pancreas in pigs, *in* Traeger J, Dubernard JM (eds): *Transplantation of the Pancreas.* New York, Grune and Stratton, 1981, pp 135-137.
10. Groth CG, Lundgren G, Klintmalm G, et al: Successful outcome of segmental human pancreatic transplantation with enteric exocrine diversion after modifications in technique. *Lancet* 1982;2:522-524.
11. Sollinger HW, Glass NR, Belzer FO: Clinical experience with pancreaticocystostomy for exocrine pancreatic drainage in pancreas transplantation. *Diabetic Nephropathy* 1983;2:23-25.
12. Sutherland DER, Goetz FC, Elick VA, et al: Experience with 49 segmental pancreas transplants in 45 diabetic patients. *Transplantation* 1982;34:330-338.
13. Sutherland DER, Ascher NL, Finch ME: Whole pancreas donation from a cadaver, *in* Simmons RL, Finch ME, Ascher NL, et al (eds): *Vascular Access, Organ Donation and Transplantation.* New York, Springer-Verlag, 1984, pp 144-152.
14. Starzl TE, Iwatsuki S, Shaw BW, et al: Pancreaticoduodenal transplantation in humans. *Surg Gyn and Obstet* 1984;159:265-272.
15. Calne RY, McMaster P, Rolles K, et al: Technical observations in segmental pancreas allografting: Observation on pancreatic blood flow, *in* Traeger J, Dubernard JM, (eds): *Transplantation of the Pancreas.* New York, Grune and Stratton, 1982, pp 51-57.
16. Bell RH, Fernandez-Cruz L, Brimm JE, et al: Prevention of whole pancreas transplantation of glomerular basement membrane thickening in alloxan diabetes. *Surg* 1980;88:31-40.
17. Mauerr JM, Sutherland DER, Steffes, MW, et al: Pancreatic transplantation: Effect on the glomerular lesions of experimental diabetes in the rat. *Diabetes* 1974;23:748-753.
18. Orloff MJ, Lee S, Charters AC, et al: Long-term studies of pancreatic transplantation in experimental diabetes mellitus. *Ann Surg* 1975;182:198-206.
19. Gray BN, Watkins E: Prevention of vascular complications of diabetes in pancreatic islet transplantation. *Arch Surg* 1976;111:254-257.
20. Weil R, Nogawa M, Koss M, et al: Pancreatic transplantation in diabetic rats: Renal function, morphology, ultrastructure and immunohistology. *Surg* 1975;78:142-148.
21. Land W, Landgraf R: Segmental pancreatic transplantation, international workshop. *Horm Metab Res Suppl* 1983;13:1-104.

The Authors

PAUL J. GARVIN, M.D.
KATHLEEN CARNEY, PA-C
MARCO CASTANEDA, M.D.
JUDY HOFF, R.N.

The authors are from the Transplant Unit, John Cochran Veterans Administration Medical Center, and the Department of Surgery, St. Louis University School of Medicine, St. Louis, Missouri

This study was supported by U.S. Public Health Service Grant AM32536-02.

Reprints

Paul J. Garvin, M.D.
Department of Surgery
St. Louis University School of Medicine
1325 Grand
St. Louis, Missouri 63104

The Radiology of the Calcaneus

Ray Cope, M.D.
Columbia, Missouri

The surgical anatomy of the calcaneus is presented. The varieties of calcaneal fractures are described and illustrated, with discussion of the difficulties that may arise with displacement and reduction.

The calcaneus is the largest of the tarsal bones and is the one most frequently fractured. It forms the posterior limb of the longitudinal arch of the foot, providing an elastic support for the body's weight and also acting as a springboard for locomotion. Fractures of the calcaneus frequently have a major impact on the patient's work and recreation. There still appears to be no treatment mode that consistently yields good results for all such fractures.

Calcaneal fractures are commonly bilateral. They are associated with spinal fractures in some 10% of cases and with lower limb injuries in 25% of cases. Hence, clinical consideration should be given to the possibility of injury to the dorsilumbar spine and contralateral ankle when a calcaneal fracture is discovered, and the appropriate additional radiographs obtained where indicated.

The normal calcaneus has a strong cortical strut running along the lateral border of the posterior articular facet. Anteriorly, this strut extends to the beak of the calcaneus, where it forms the obtuse "crucial" or "Gissane's" angle which supports the lateral spur of the talus. Trabeculae converge here to form a condensation of compact bone supporting the articular facets. This area is termed the "thalamic" portion of the calcaneus and it is through here that the blood vessels pass (Fig 1).

Boehler's angle is useful in the evaluation of calcaneal trauma. It is formed by lines drawn from the superior tip of the posterior facet of the subtalar joint through the posterosuperior margin of the tuberosity and through the superior margin of the anterior process. This angle normally measures 20-40 degrees (Fig 1) and is useful in the assessment of the amount of depression of the posterior subtalar facet in calcaneal fractures.[1, 2] An angle less than 20 degrees indicates significant depression. This angle may even become negative (Fig 2). Boehler's angle is also useful in assessing the adequacy of fracture reduction.[3]

A variety of classifications exist for calcaneal fractures. The principal function of such systems is to separate fractures having a good prognosis from those known to do poorly. A simplified version of an established classification[4] divides fractures into two subgroups.

1) *Extra-articular fractures* are those in which the posterior subtalar joint is not involved. They comprise about 25% of all calcaneal fractures and often heal well. However, many of these fractures cause problems in management, and some further cause permanent disability. Special oblique radiographs are often required to exclude involvement of the subtalar joint. Varieties of these fractures are illustrated in this article (Fig 3).

2) *Intra-articular fractures*, termed "crush" or "squash" fractures, involve the posterior subtalar joint. They nearly always follow a fall, which may be from a modest height, and account for some 75% of all calcaneal and 60% of all tarsal fractures. Their surgical management continues to be problematical.

Two definite and constant fracture patterns occur, which are closely related in mechanism. The calcaneus initially fractures into two main fragments, with the primary fracture line running dorsally from the plantar surface into the posterior facet of the subtalar joint. If the secondary fracture line extends di-

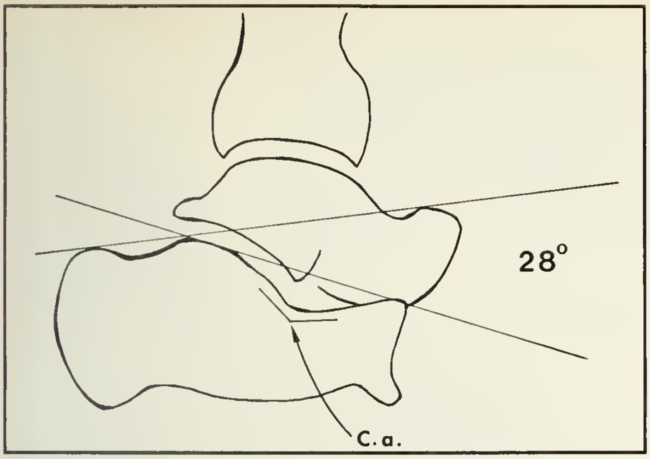


Fig 1. A diagrammatic illustration of the construction of Boehler's angle on a lateral view of the ankle. The crucial angle (c.a.) is also shown.

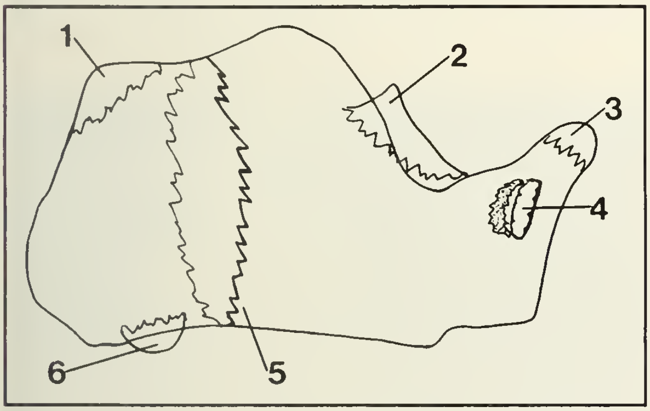


Fig 3. Schematic drawing of the varieties of non-compressive extra-articular fractures. These include those involving the calcaneal beak (1), sustentaculum tali (2) and the anterior process (3). An avulsion fracture at the insertion of the extensor digitorum brevis (4), oblique (5), and marginal (6) fractures of the tuberosity are also shown.

rectly posteriorly, it gives rise to the tongue type of fracture (Fig 4A), in which a large posterior, superior and lateral fragment is produced. The fragment contains the upper portion of the tuberosity (Fig 4B) and can be displaced, with its anterior articular portion being driven plantarwise. This displacement results in incongruity of the posterior facet (Fig 2).

If, as more commonly occurs, the secondary fracture line deviates dorsally to exit the bone just posterior to the posterior facet, then a joint depression, or centrolateral depression, type of fracture results (Fig 5A). This fragment, too, can be displaced with plantar rotation of the anterior portion (Fig 5B). The term "centrolateral" refers to the location of the principal fragment, which is situated laterally and is depressed into the central part of the calcaneus. The principal fragment containing the posterior facet is separated from the tuberosity by a vertical fracture line just posterior to the posterior facet (Fig 5C). It is buried in the body of the calcaneus and invariably can be reduced only at open surgery.[2,4] Such a frac-

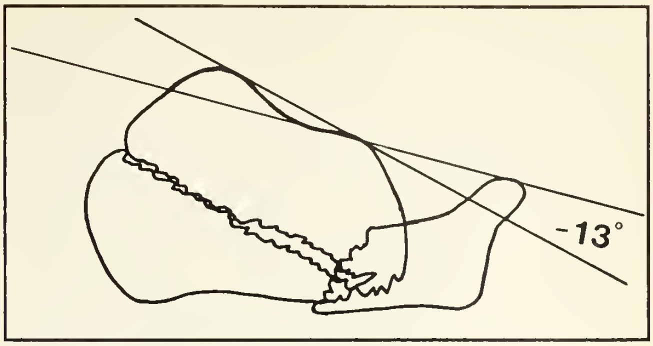


Fig 2. Illustration of a tongue type of fracture, with the anterior part of the superior fragment driven plantarwise. This results in incongruity of the posterior subtalar facet and a negative Boehler's angle.

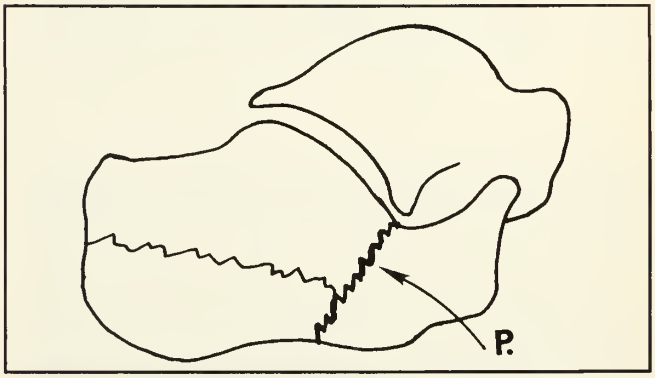


Fig 4A. A tongue type of compressive intra-articular fracture. The primary fracture line (P) is shown, with the secondary fracture line running directly posteriorly.

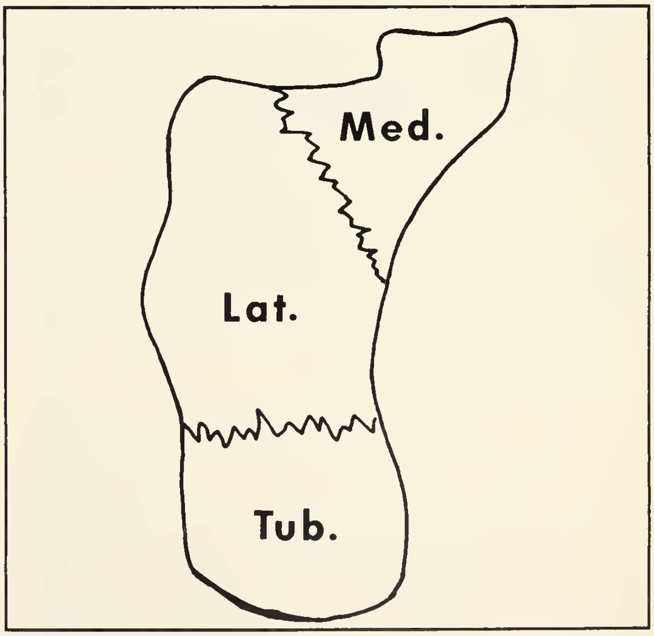


Fig 4B. The appearance of the principal fragments of the tongue type of compression fracture, as seen on the axial view.

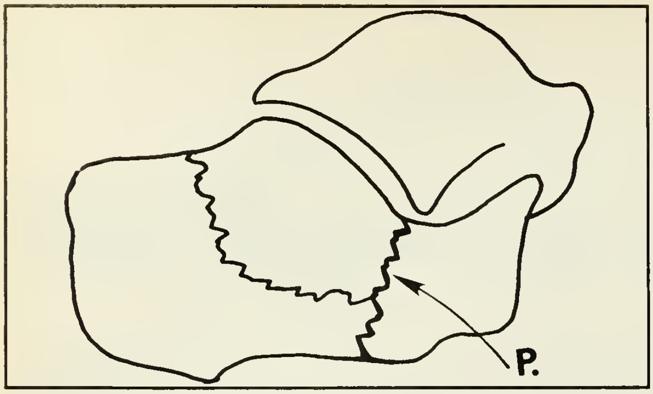


Fig 5A. A representation of a joint depression, or centrolateral depression, type of intra-articular fracture. The primary fracture line (P) is the same as in the tongue type of fracture, but the secondary fracture line deviates dorsally to exit the bone just behind the posterior subtalar facet.

ture is illustrated (Fig 6). This occurred in a 28-year-old man who jumped into shallow water from a height of 100 feet. The displacement of the principal fragment can be clearly seen.

Calcaneal fractures in children are mainly of the extra-articular variety. They are relatively uncommon, and preservation of the normal subtalar articulations may be found even with intra-articular fractures in the pediatric age group.[5] However, some calcaneal fractures in children can be just as devastating as in adults. Some calcaneal fractures are so severely comminuted as to defy classification. In this variety of fracture especially, computerized tomography may provide useful information that is not available on conventional radiographs. These scans display joint alignment, fragment displacement and the integrity of the medial wall of the calcaneus, all of which are key factors in planning surgical reconstruction.[6]

3) Stress fractures occur in the tuberosity. As elsewhere, they may not be immediately visible radiologically. They are bilateral in 25% of cases; if this fact is not appreciated, comparison views with the opposite heel might be misleading. They are common in military recruits and joggers and are as common as metatarsal stress fractures.

A hazy, speckled appearance is often the first abnormality to be noticed. This then usually progresses to a sclerotic band parallel to the posterior margin of the calcaneus, representing endosteal callus formation. Magnification techniques and xerography may be occasionally helpful, and nuclear medicine studies will frequently signal a stress fracture before it appears on conventional radiographs.[7, 8] A typical stress fracture is shown (Fig 7). This was sustained by a 16-year-old girl who embarked on a high-mileage, crash running program. She began to complain of a dull pain in her left heel after eight weeks, but radiographs at the time were negative. Five weeks later, the stress fracture was obvious on the films.

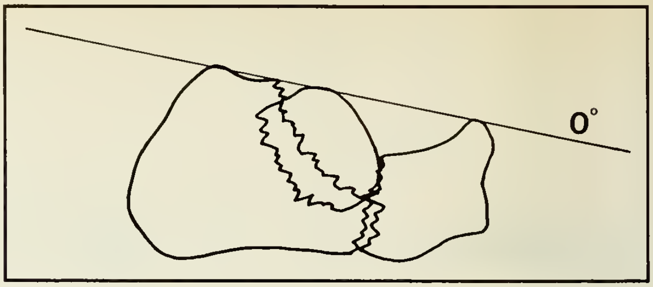


Fig 5B. Illustration of the plantarwise rotation of the anterior portion of the displaced fragment.

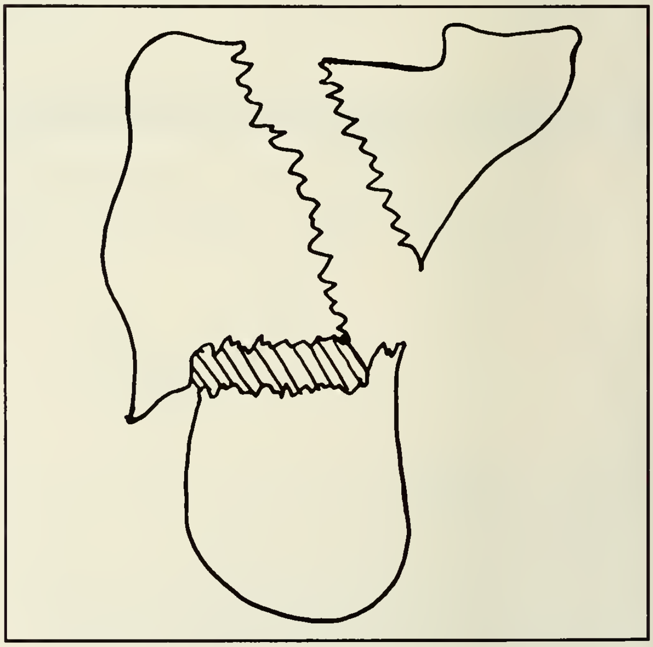


Fig 5C. The principal fragments of a joint depression type of crush fracture, as seen on the axial view.

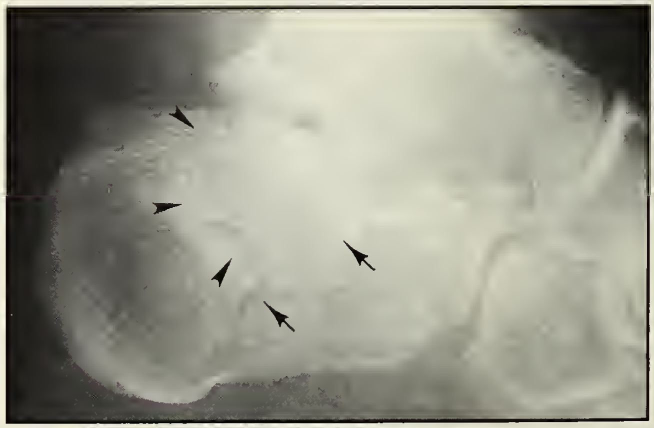


Fig 6. Lateral radiograph of the ankle. A joint depression fracture is present. The primary fracture line is clearly seen (arrows), extending dorsally into the posterior subtalar facet. The secondary fracture line (arrowheads) is also seen, reaching the superior calcaneal surface at a point just posterior to the posterior facet, which is displaced and rotated.

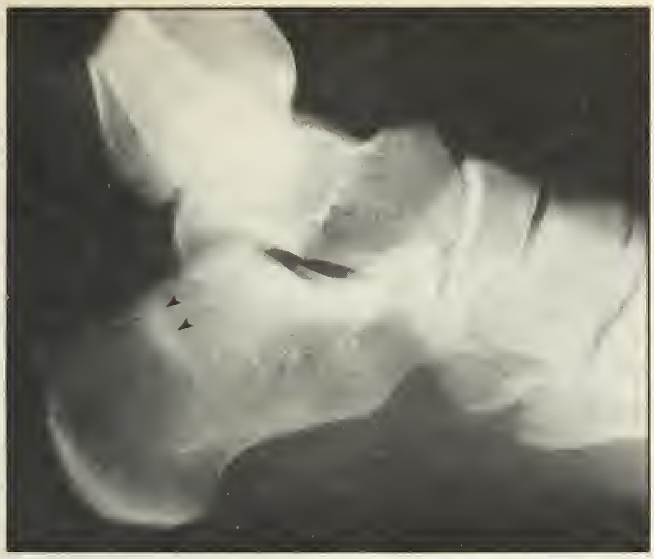


Fig 7. Vertical band of sclerosis in the tuberosity (arrowheads), indicative of an established stress fracture.

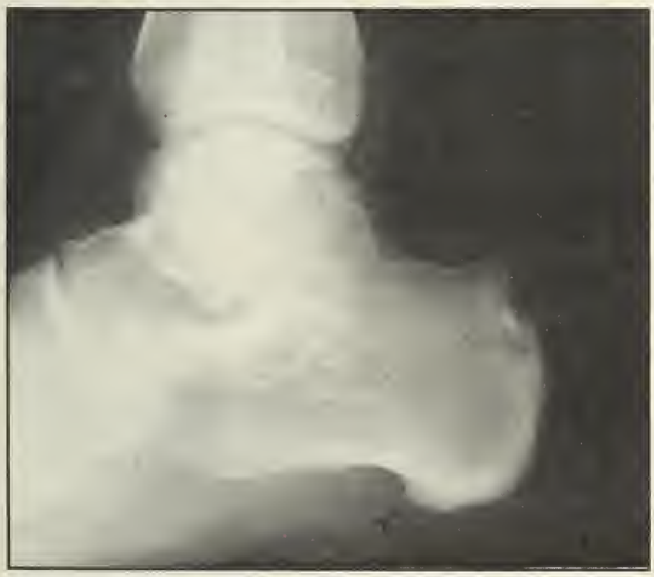


Fig 8. Large posterior calcaneal erosion at the site of the Achilles tendon insertion (arrowhead) and also a small plantar spur (arrowhead).

Finally, a variety of medical conditions can involve the calcaneus, mainly in relation to the insertion of the Achilles tendon and to the synovium-lined retrocalcaneal bursa. Erosions at these sites can be encountered with rheumatoid arthritis, but a loss of sharp cortical definition is more common. The seronegative spondyloarthropathies can all lead to retrocalcaneal bursitis, Achilles tendon thickening, plantar and posterior calcaneal spurs, and posterior calcaneal erosions. Bony proliferation and periostitis may also be seen. Heel symptoms are uncommon in ankylosing spondylitis, but radiographic changes are common as they also may be in psoriatic arthritis.

Calcaneal changes are characteristic of Reiter's syndrome and are found in 25% to 50% of cases. They may represent the only radiographic manifestations of the disease and are commonly associated with significant symptoms and bilateral involvement.[9] The heel changes are well depicted in the films of a 19-year-old seaman, who was complaining of severe pain in his left heel. He gave a clear history of urethritis following sexual exposure three years earlier and also admitted to having been treated for conjunctivitis following this. Clearly seen on the lateral ankle film is a small plantar spur and a large posterior erosion (Fig 8). Uncommonly, sickle cell anemia may also give rise to calcaneal erosions.[10]

References

1. Heckman JD: Fractures and dislocations of the foot, in Rockwood CA, Green DP (eds): *Fractures in Adults*. Philadelphia, JB Lippincott Co, 1984, p 1760.
2. Rogers LF: *The Radiology of Skeletal Trauma*. New York, Churchill Livingstone, 1982, p 865.
3. Rogers LF, Campbell RE: Foot, in Felson B (ed): *Roentgenology of Fractures and Dislocations*. New York, Grune & Stratton, 1978, p 153.
4. Essex-Lopresti P: The mechanism, reduction technique and results in fractures of the os calcis. *Brit J Surg* 1952;39:398.
5. Schmidt TL, Weiner DS: Calcaneal fractures in children. An evaluation of the nature of the injury in 56 children. *Clin Orthop* 1982;171:150.
6. Segal D, Marsh JL, Leiter B: Clinical application of computerized axial tomography scanning of calcaneus fractures. *Clin Orthop* 1985;199:114.
7. Wilson ES, Katz FN: Stress fractures: An analysis of 250 consecutive cases. *Radiology* 1969;92:481.
8. Meurman KOA, Elfving S: Stress fractures in soldiers: A multifocal bone disorder. *Radiology* 1980;134:483.
9. Resnick D, Feingold MD, Niwayama G, et al: Calcaneal abnormalities in articular disorders. *Radiology* 1977;125:355.
10. Rothschild BM, Sebes JI: Calcaneal abnormalities and erosive bone disease associated with sickle cell anemia. *Amer J Med* 1981;71:427.

The Author

RAY COPE, M.D.

Dr. Cope is associate professor in the Department of Radiology, University of Missouri-Columbia School of Medicine.

I am grateful to Barry Gainor, M.D., for his assistance.

Reprints

Ray Cope, M.D.
Department of Radiology
University of Missouri-Columbia
School of Medicine
1 Hospital Drive
Columbia, Missouri 65212

A Case-Control Study of Lung Cancer in St. Francois County, 1976-1984

Ross C. Brownson, Ph.D., Janice R. Devier, M.P.A., Jian C. Chang, Ph.D., and James R. Davis, M.S.
Columbia, Missouri

An investigation into a possible excess of lung cancer deaths in the Flat River, Missouri, area led researchers to conclude that the majority of the deaths were smoking-related. Although lead mining, a prominent industry in the region, played a role in some of the deaths, cigarette smoking was the overriding risk factor.

Lung cancer is the most common form of cancer in the United States and in many areas of the world. It accounts for 23% of all cancer deaths and has recently surpassed breast cancer as the leading cancer killer among women.[1] Cigarette smoking has been causally linked to lung cancer for more than 20 years.[2, 3]

In 1985, citizen concern developed over a possible excess of lung cancer deaths in the Flat River area of St. Francois County. We examined lung cancer mortality in this Missouri lead mining district and conducted a case-control study in order to evaluate etiologic factors and identify possible preventive measures.

Materials and Methods

Mortality Analyses. Lung cancer mortality data for the period 1976-1984 were analyzed for St. Francois County and for the Flat River area. The Flat River area included the towns of Deslodge, Elvins, Esther, Flat River, Leadington, and Rivermines.

Case-Control Study. The case group consisted of all deaths due to lung cancer between 1976 and 1984 in the Flat River area. A total of 89 lung cancer deaths were identified from death certificates. Histologic confirmation was obtained for 85 cases (97%) using the Missouri Cancer Registry (MCR). Four cases were not histologically verified because the findings from their medical records had not been reported to the MCR. All cases identified were in whites. Interviews for 72 cases were obtained, but only 66 cases were successfully matched to a control subject. Deceased controls were identified through the Missouri Center for Health Statistics and matched to cases within five years for age and year of death. Cancer- and respiratory system-related deaths were excluded from the control group. Smokers would have probably been overrepresented in these diagnostic categories and, therefore, the risk of lung cancer associated with smoking would have been underestimated.[4]

The detailed questionnaire used in the case-control study focused on smoking history and occupational exposures to potential carcinogens. Data included the number of years smoked, average daily amount, and tobacco use other than cigarettes. Occupation and industry were coded and checked by the MCR staff using the 1980 United States census codes.[5, 6] Information was obtained by trained interviewers, and the majority of the interviews were conducted in the respondents' homes. Telephone interviews were necessary for next of kin who had moved from the study area. The majority of the interviews were conducted with spouses but, when necessary, offspring and other family members were interviewed. Information was unavailable for 13 eligible cases because they either had no surviving relatives or their next of kin could not be located.

The odds ratio (OR) was used as the measure of association between lung cancer and various risk factors. The OR is an approximation of the relative risk. For example, an OR = 4 for smoking and lung cancer means that a smoker has four times the risk of contracting lung cancer than a nonsmoker. Ninety-five percent confidence intervals (CI) were calculated by the Fisher exact method.[7-9] In addition, logistic regression was used to obtain estimates of the OR and corresponding 95% CI, while simultaneously controlling for other risk factors.[10]

In addition, the data were stratified according to histologic type. The predominant cell type was squamous cell carcinoma (36% of the cases), followed by small cell carcinoma (26%) and adenocarcinoma (18%). Risk estimates were not calculated for the various cell types due to small numbers.

Table 1

Lung Cancer Mortality for the Flat River Area and St. Francois County, 1976-1984

Area of Residence	*Deaths* *Observed*	 *Expected*[a]
Deslodge	23	17.7
Elvins	16[b]	8.1
Esther	4	5.4
Flat River	39[b]	24.6
Leadington	5[b]	1.3
Rivermines	2	2.2
Total, Flat River area	89[b]	60.0
Total, St. Francois County	262[b]	228.1

[a] *Expected deaths based on age- and sex-specific Missouri death rates for lung cancer.*
[b] *Statistically significant at* $p < 0.05$.

Results and Discussion

Table 1 presents observed and expected numbers of lung cancer deaths between 1976 and 1984 for the Flat River area and St. Francois County. The towns of Elvins, Flat River, and Leadington showed statistically significant excesses. Mortality in the Flat River area, as well as the entire county of St. Francois, was elevated. However, 85% of the observed excess in the county was due to deaths occurring in the Flat River area, even though this area contained only 25% of the county's population. Although Table 1 only shows data for both sexes combined, separate analyses of male and female lung cancer deaths revealed significant excesses in the Flat River area.

The risks associated with smoking among men are shown in Table 2. The OR for past smoking among men was 33.45 (95% CI = 2.35-751.56). Significant linear trends in ORs were identified for average number of packs smoked per day and for number of years smoked. Men employed as machine operators in lead mining had an elevated risk of lung cancer (OR = 2.84; 95% CI = 1.07-7.53) after adjustment for cigarette smoking.

Similar associations between smoking variables and lung cancer risk were observed for women (Table 3). Previous smoking was associated with a risk estimate of 35.29 (95% CI = 1.97-827.29). Both packs smoked per day and number of years smoked showed dose-response relations with lung cancer risk in women.

Before drawing conclusions, it is necessary to point out a limitation of these data. It was difficult to estimate precisely the risk of lung cancer associated with smoking because all of the patients had smoked previously. Nonetheless, highly significant smoking-associated ORs and linear trends in risk due to smoking were observed for both sexes. Because there were no nonsmokers, the ORs for dichotomous smoking history were computed by adding 0.5 to each cell of

Table 2

Lung Cancer Risk for Smoking Variables Among Men

Factor	*No. of Cases*	*No. of Controls*	*Odds Ratio (95% Confidence Interval)*
Ever Smoked[a]			
No	0	12	1.00
Yes	47	35	33.45(2.35-751.56)
Packs per Day			
< ½	7	19	1.00
½-1¾	24	20	1.99(0.58-6.84)
2+	16	16	4.28(1.01-18.16)
Years Smoked			
0-30	4	16	1.00
31-45	22	23	2.45(0.58-10.39)
46+	21	8	6.95(1.57-30.89)

[a] *Odds ratio for dichotomous smoking history was computed by adding 0.5 to each cell.*

Table 3

Lung Cancer Risk for Smoking Variables Among Women

Factor	*No. of Cases*	*No. of Controls*	*Odds Ratio (95% Confidence Interval)*
Ever Smoked[a]			
Yes	0	9	1.00
No	19	10	35.29(1.97-827.29)
Packs per Day			
< ½	2	10	1.00
½-1¾	10	6	4.62(0.58-37.11)
2+	7	3	6.15(0.51-74.11)
Years Smoked			
0-30	4	12	1.00
31-45	10	6	2.57(0.45-14.63)
46+	5	1	5.59(0.33-93.95)

[a] *Odds ratio for dichotomous smoking history was computed by adding 0.5 to each cell.*

the contingency table. The risk estimates for packs per day and years smoked included smokers in the reference (lowest) level of exposure. Therefore, ORs for packs per day and years smoked were underestimated.

Conclusion

This study once again demonstrates what is arguably the most important public health threat of current times, tobacco smoking. We identified an excess of lung cancer in a rural lead mining district almost entirely attributable to cigarette smoking. Previous studies have shown an increased risk of lung cancer among underground metal miners.[11] Although there was an increased risk of lung cancer among mining machine operators in this study, the risk associated with smoking was more than ten-fold greater than that associated with mining.

References

1. American Cancer Society: *Cancer Facts & Figures: 1986*. New York, American Cancer Society Inc, 1986.
2. US Public Health Service: *Smoking and Health: Report of the Advisory Committee to the Surgeon General of the Public Health Service*. US Dept of Health, Education, and Welfare, Public Health Service, Centers for Disease Control, PHS Publication No. 1103, 1964.
3. Hammond EC: Smoking in relation to the death rates of one million men and women. *Natl Cancer Inst Monogr* 1966;19:127.
4. Schlesselman JJ: *Case Control Studies: Design, Conduct, Analysis*. New York, Oxford University Press, 1982.
5. US Department of Commerce: *1980 Census of Population: Classified Index of Industries and Occupations*. Washington DC, US Government Printing Office, 1982.
6. US Department of Commerce: *1980 Census of Population: Alphabetical Index of Industries and Occupations*. Washington DC, US Government Printing Office, 1982.
7. Fisher RA: *Statistical Methods and Scientific Inference*. London, Oliver & Boyd, 1956.
8. Rothman KJ, Boice JD Jr: *Epidemiologic Analysis with a Programmable Calculator*. Boston, Epidemiology Resources Inc, 1982.
9. Breslow N: Odds ratio estimators when the data are sparse. *Biometrika* 1981;68:73.
10. Engelman L: Stepwise logistic regression, in Dixon WJ (ed): *BMDP Statistical Software*. Berkeley, University of California Press, 1985.
11. Fraumeni JF Jr: Respiratory carcinogenesis: An epidemiologic appraisal. *J Natl Cancer Inst* 1975;55:1039.

The Authors

ROSS C. BROWNSON, Ph.D.
JANICE R. DEVIER, M.P.A.
JIAN C. CHANG, Ph.D.
JAMES R. DAVIS, M.S.

Dr. Chang is from the Missouri Cancer Registry, Columbia, Missouri. His co-authors are from the Bureau of Cancer Epidemiology and Control, Missouri Department of Health, also in Columbia.

Reprints

Ross C. Brownson, Ph.D.
Bureau of Cancer Epidemiology and Control
Division of Environmental Health and Epidemiology
Missouri Department of Health
P.O. Box 1268
Columbia, Missouri 65205

Plan Ahead . . .

Everyone should have insurance, regardless of their profession. As a medical professional, you know the importance of having coverage that can help meet your needs for today and tomorrow.

The Missouri State Medical Association understands your needs and is able to protect you with comprehensive plans like these:

- $1,000,000 Major Medical Plan - $1,000,000 worth of solid major medical protection. Your choice of deductible. Coverage may be continued for life. Especially designed to help fill the needs of you, the medical professional, and your family.
- $250,000 Term Life - An inexpensive way to give your family sound financial protection. Pays up to $250,000 in benefits—spouses may be covered for up to $100,000. Volume discounts for coverage over $100,000. Make sure that your family is protected.
- Accidental Death and Dismemberment - Avoid a financial crisis in the event of a serious accident. Just $4 a month can buy $100,000 protection for you and your family. Round the clock coverage to give your family a large measure of the protection they need.

Underwritten by: The Mutual Life Insurance Company of New York

Administered by: Forrest T. Jones & Company, Inc., Kansas City, MO

For more information, CLIP THE COUPON BELOW OR CALL TOLL-FREE: National - 800-821-7303, Missouri - 800-892-7272, Kansas City 816-756-1060, ASK FOR JAN PACEY

Check the boxes below for more information on MSMA-sponsored Plans and mail this coupon to: Forrest T. Jones & Company, Inc., P.O. Box 418131, Kansas City, MO 64141-9131

☐ $1,000,000 Major Medical ☐ $250,000 Term Life ☐ $100,000 AD&D

Name ____________________

Address ____________________

City ____________________ **State** __________ **ZIP** __________

In Memoriam

■ **Daniel Bisno, M.D.,** died June 9, 1987 at the age of 81. Dr. Bisno, an ophthalmologist, practiced medicine in St. Louis for more than 50 years before retiring in 1982. He served on the staffs of Barnes and Jewish Hospitals. He obtained his medical degree at Johns Hopkins University in 1931. Dr. Bisno was a member of the St. Louis Metropolitan Medical Society.

■ **Robert C. Donaldson, M.D.,** died June 4, 1987, at the age of 67. Dr. Donaldson, a surgeon, served on the staffs of John Cochran Veterans Administration and Jefferson Barracks Hospitals for 40 years. He obtained his medical degree at the Washington University School of Medicine in 1944. Dr. Donaldson was a member of the St. Louis Metropolitan Medical Society.

■ **Wayne O. Gorla, M.D.,** died May 29, 1987, at the age of 75. Dr. Gorla, an internist, practiced medicine in St. Louis for more than 40 years, before retiring from private practice in 1977. He obtained his medical degree at the St. Louis University School of Medicine in 1936. Dr. Gorla was a member of the St. Louis Metropolitan Medical Society.

■ **A. David Hoffman, M.D.,** died June 9, 1987, at the age of 70. Dr. Hoffman, an internist, retired from practice in 1976. He had maintained an office in St. Louis and served on the staffs of four hospitals in the area. He obtained his medical degree at the St. Louis University School of Medicine in 1940. Dr. Hoffman was a member of the St. Louis Metropolitan Medical Society.

■ **Frank T. Kerr, M.D.,** died June 5, 1987, at the age of 81. Dr. Kerr, a family practitioner, practiced medicine in Monett for 38 years before retiring in 1970. He obtained his medical degree at Northwestern University in 1932. Dr. Kerr was a member of the Ozarks Medical Society.

■ **Lewis E. Littman, M.D.,** died July 7, 1987, at the age of 74. Dr. Littman, an internist, retired in 1987 after practicing medicine and serving on the staffs of several St. Louis Hospitals for many years. He obtained his medical degree at Washington University School of Medicine in 1937. Dr. Littman was a member of the St. Louis Metropolitan Medical Society.

■ **William C. Magness, M.D.,** died June 1, 1987, at the age of 74. Dr. Magness, a family practitioner, practiced medicine in Branson for 24 years and was the medical director at Nevada Habilitation center for 10 years, before he retired in 1986. He obtained his medical degree at the University of Arkansas School of Medicine in 1938. Dr. Magness was a member of the West Central Medical Society.

■ **Emmett D. Wall, M.D.,** died May 27, 1987, at the age of 82. Dr. Wall, an internist, became chief of medical services at Veterans Administration Hospital, Jefferson Barracks, in 1945. He retired in 1963. He obtained his medical degree at the St. Louis University School of Medicine in 1929. Dr. Wall was a member of the St. Louis Metropolitan Medical Society.

■ **Doyle C. Whitman, M.D.,** died June 6, 1987, at the age of 84. Dr. Whitman, certified in occupational medicine, was medical director for the Bendix Kansas City Division before he retired in 1970. He obtained his medical degree at the University of Kansas Medical School in 1941. Dr. Whitman was a member of the Metropolitan Medical Society of Greater Kansas City.

■ **Irving A. Wien, M.D.,** died June 13, 1987, at the age of 79. Dr. Wien, a surgeon, practiced in the Kansas City area for 52 years before retiring in 1986. He obtained his medical degree at the University of Wisconsin in 1932. Dr. Wien was a member of the Metropolitan Medical Society of Greater Kansas City.

The Shealy Institute

*A PRACTICAL SOLUTION
TO ONE OF YOUR MOST
FRUSTRATING PATIENT PROBLEMS*

**The Logical Extension of
Your Professional Services —**

- Our Institute pioneered the comprehensive "Pain Rehabilitation" concept.
- We introduced the pain control techniques most often used in rehabilitating chronic pain patients — facet rhizotomy, TENS, PENS, Biogenics®, and neurochemical profiling.
- We continue to be the recognized leader in the field. Our success is measured by your patient's ability to return to work, withdraw from drugs, and control pain intensity.
- Since we specialize in pain management, your patient returns to you after treatment. We are available as consultants at any time. We are the only *accredited* pain management clinic in the four state area. Our services are covered by most insurance companies and worker's comp programs.

carf

CARF
*A Nationally Accredited
Rehabilitation Facility*

Send for a free copy of
the Shealy Pain Report.
The Shealy Institute
3525 S. National
Springfield, MO 65807
417-882-0850
1-800-492-4171, Ext. 35

Physician's Recognition Awards

Ninety-eight MSMA members qualified for the MSMA-AMA Physician's Recognition Award during May and June 1987.

The award, presented by the Missouri State Medical Association and the American Medical Association, is given to those physicians who voluntarily complete 150 credit hours of continuing medical education within a three-year period. Sixty of the credit hours must be earned in Category I programs.

Boone

Warford B. Johnson, *Columbia*
William R. Kimlinger, *Columbia*
Carlos M. Monzon, *Columbia*
H. Jerry Murrell, *Columbia*
George Prica, *Columbia*
Jason N. Smith, *Columbia*

Buchanan

Dak R. Burnett, *St. Joseph*
Theodore C. Kiekhaefer, *St. Joseph*
Benedict A. Moranville, *St. Joseph*

Clay-Platte

Louis A. Allen, *North Kansas City*
Nicola Y. Katf, *North Kansas City*
Timothy A. Wilson, *Kansas City*
Earl J. Wright, *Kansas City*

Cole

Mohammad N. Akhter, *Columbia*

Greene

David M. Baker, *Ozark*
Jordan W. Burkey, *Springfield*
Stephan R. Curry, *Springfield*
Carl N. Mentgen, *Springfield*

Jackson

Thomas P. Allen, *Kansas City*
Keith W. Ashcraft, *Kansas City*
Chester I. Bare, *Raytown*
Frank E. Baum, *Kansas City*
Hubert H. Bell, *Kansas City*
Barbara N. Buchanan, *Kansas City*
Bruce R. Buie, *Kansas City*
John C. Callenbach, *Kansas City*
John B. Chamberlain, *Kansas City*
Jean A. Chapman, *Kansas City*
Sherman W. Cole, *Kansas City*
Thomas T. Crouch, *Kansas City*
George D. Dixon, *Kansas City*
Howard J. Ellfeldt, *Kansas City*

Jackson (cont.)

Clarence B. Francisco, *Kansas City*
Robert L. Goolsbee, *Kansas City*
Joseph C. Gottsch, *Kansas City*
Rengasamy Gowdamarajan, *Kansas City*
Robert E. Gunnoe, *Kansas City*
Anthony C. Gutierrez, *Kansas City*
Thomas M. Holder, *Kansas City*
Michael F. Hughes, *Kansas City*
C. Laurence Johnson, *Kansas City*
Marvin Kahn, *Independence*
Timothy D. Kennedy, *Kansas City*
William E. Larsen, *Kansas City*
King Y. Lee, *Kansas City*
James K. Loutzenhiser, *Kansas City*
Ralph E. MacNaughton, *Kansas City*
Andrew McCanse, *Kansas City*
H. Richard McFarland, *Kansas City*
Wallace P. McKee, *Kansas City*
Bentley A. Nelson, *Kansas City*
Jere O. Osborne, *Kansas City*
Jay T. Peterson, *Kansas City*
Annette M. Quick, *Kansas City*
Dorothy D. Reister, *Kansas City*
Andrew J. Rhodes, *Independence*
Loyd D. Richardson, *Kansas City*
John H. Rippey, *Kansas City*
Gordon C. Sauer, *Kansas City*
Ronald J. Sharp, *Kansas City*
Michael B. Sheehan, *Kansas City*
Sanford Simon, *Kansas City*
J. Edward Slankard, *Kansas City*
Gerald E. Staab, *Kansas City*
Jose R. Richards-Thomas, *Kansas City*
Harold W. Voth, *Kansas City*
Herbert J. Waxman, *Kansas City*
Michael J. Waxman, *Kansas City*
James H. Whitaker, *Kansas City*
Roland D. Williams, *Kansas City*
W. J. Wurster, *Kansas City*
Donald V. Youll, *Kansas City*
Ronald A. Youmans, *Kansas City*
Charles H. Zerr, *Independence*

Jefferson

Michael K. Blank, *DeSoto*

Lafayette-Ray

Hsien-Ell Lai, *St. Louis*
Lan K. Nguyen, *Waverly*

Marion-Ralls-Shelby

Michael J. Bukstein, *Hannibal*

Mid-Missouri

Deo K. Bhati, *Salem*
Jorge A. Fortin, *Rolla*

Northwest

Manuel W. Runez, *Maryville*

St. Charles-Lincoln

Clarke T. Harding, *St. Louis*
Pedro L. Suarez-Solar, *St. Charles*

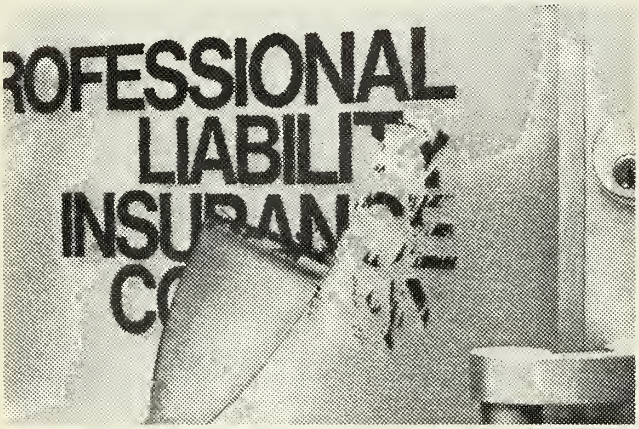
St. Louis

Gregg J. Berdy, *Clayton*
Ken C. Chiu, *Chesterfield*
Jack Cokrhame, *Florissant*
Charles J. DiCecco, *Chesterfield*
Jitendra K. Gupta, *Chesterfield*
Kun T. Liao, *St. Louis*
Mark A. Lichtenfeld, *Ellisville*
Roger L. Mell, *Chesterfield*
Edward M. Ring, *St. Louis*
Hubert A. Ritter, *St. Louis*
Randall D. Roush, *Bridgeton*
Stephen G. Slocum, *St. Louis*
Darrel W. Yates, *St. Louis*

West Central

Robert R. Jones, *Nevada*
Lyell M. Magruder, *Nevada*

In ten years your malpractice carrier may be just a memory.



Unless it's Medical Protective.

The most important thing an insurance company sells is its promise to be here when you need help. Unfortunately, that's a promise that's easy to make, but hard to keep.

When you consider liability insurance, remember this. A company that's survived tough times before is more likely to come through a crisis period. And no company has weathered more of the industry's tough times than The Medical Protective Company because we pioneered professional liability coverage nearly a century ago.

For more information contact your Medical Protective Company general agent. He'll be here when you need him.

The
Medical Protective Company
Fort Wayne, Indiana

Ralph E. Borgmann, Philip E. Moppert
Suite 120, 13100 Manchester Road, St. Louis, MO 63131, (314) 965-7400

Robert E. McCurdy, Thomas E. Meierant
Suite 290, 7500 West 95th Street, P.O. Box 12128, Overland Park, KS 66212, (913) 381-4222

New HemaWipe® System

Designed to solve
the compliance problem

Just wipe, peel and seal.

Introducing the first "civilized" test for fecal occult blood.

For more information call

The GOETZE-NIEMER CO.

1701 Brooklyn, K.C., MO. 816-231-1900
1-800-892-7337 (MO) 1-800-492-7337 (KS)

To show you how many hypertensives stayed on

INDERAL® LA
(PROPRANOLOL HCl)

after a major nationwide trial...

...we had
to find
just the
right room.

60,073 patients (90%) who started on INDERAL LA stayed on INDERAL LA.[1*]

Surprising? Not really.

Because most patients on INDERAL LA (propranolol HCl) don't even know it's working.
A recent double-blind, placebo-controlled, crossover study in 138 hypertensive patients[2] revealed that INDERAL LA has a side effects profile unsurpassed by atenolol or metoprolol—which shows how well-tolerated once-daily INDERAL LA can be.

Sole therapy or concomitant therapy? Fifty-nine percent of the time, INDERAL LA stood on its own.

The patients in the nationwide compliance trial were no different from yours. Generally when the antihypertensive regimen is complicated, compliance may become a problem. So, the effectiveness of INDERAL LA as once-daily monotherapy is a big plus. Of the remaining hypertensives in the program, 36% were treated merely with the addition of a diuretic to INDERAL LA.

For the noncompliant patients in your practice, INDERAL LA may well be the answer.

Almost 20,000 of the patients in the nationwide compliance trial were identified as having been noncompliant with their previous antihypertensive therapy. Their physicians reported that 88% showed improved compliance when placed on once-daily INDERAL LA.

Control, comfort, and compliance

ONCE-DAILY
INDERAL® LA
(PROPRANOLOL HCl)
LONG ACTING CAPSULES

Like conventional INDERAL Tablets, INDERAL LA should not be used in the presence of congestive heart failure, sinus bradycardia, cardiogenic shock, heart block greater than first degree, and bronchial asthma.

*After a 30-day trial with INDERAL LA, physicians reported that 90% of the patients would remain on INDERAL LA.

The one you know best keeps looking better

NOW AVAILABLE...
NEW LOW DOSE
INDERAL LA 60 mg
(PROPRANOLOL HCl)
LONG ACTING CAPSULES

Please see next page for brief summary of prescribing information

The one you know best keeps looking better

BRIEF SUMMARY *(FOR FULL PRESCRIBING INFORMATION SEE PACKAGE CIRCULAR)*

INDERAL® LA brand of propranolol hydrochloride **(Long Acting Capsules)**

DESCRIPTION. INDERAL LA is formulated to provide a sustained release of propranolol hydrochloride INDERAL LA is available as 60 mg, 80 mg 120 mg, and 160 mg capsules

CLINICAL PHARMACOLOGY. INDERAL is a nonselective beta-adrenergic receptor-blocking agent possessing no other autonomic nervous system activity It specifically competes with beta-adrenergic receptor-stimulating agents for available receptor sites When access to beta-receptor sites is blocked by INDERAL, the chronotropic inotropic and vasodilator responses to beta-adrenergic stimulation are decreased proportionately

INDERAL LA Capsules (60 80 120, and 160 mg) release propranolol HCl at a controlled and predictable rate Peak blood levels following dosing with INDERAL LA occur at about 6 hours and the apparent plasma half-life is about 10 hours When measured at steady state over a 24-hour period the areas under the propranolol plasma concentration-time curve (AUCs) for the capsules are approximately 60% to 65% of the AUCs for a comparable divided daily dose of INDERAL Tablets The lower AUCs for the capsules are due to greater hepatic metabolism of propranolol, resulting from the slower rate of absorption of propranolol Over a twenty-four (24) hour period blood levels are fairly constant for about twelve (12) hours then decline exponentially

INDERAL LA should not be considered a simple mg-for-mg substitute for conventional propranolol and the blood levels achieved do not match (are lower than) those of two to four times daily dosing with the same dose When changing to INDERAL LA from conventional propranolol a possible need for retitration upwards should be considered especially to maintain effectiveness at the end of the dosing interval In most clinical settings however, such as hypertension or angina where there is little correlation between plasma levels and clinical effect, INDERAL LA has been therapeutically equivalent to the same mg dose of conventional INDERAL as assessed by 24-hour effects on blood pressure and on 24-hour exercise responses of heart rate, systolic pressure and rate pressure product INDERAL LA can provide effective beta blockade for a 24-hour period

INDICATIONS AND USAGE. Hypertension: INDERAL LA is indicated in the management of hypertension it may be used alone or used in combination with other antihypertensive agents, particularly a thiazide diuretic INDERAL LA is not indicated in the management of hypertensive emergencies

Angina Pectoris Due to Coronary Atherosclerosis: INDERAL LA is indicated for the long-term management of patients with angina pectoris

Migraine: INDERAL LA is indicated for the prophylaxis of common migraine headache The efficacy of propranolol in the treatment of a migraine attack that has started has not been established and propranolol is not indicated for such use

Hypertrophic Subaortic Stenosis: INDERAL LA is useful in the management of hypertrophic subaortic stenosis especially for treatment of exertional or other stress-induced angina palpitations and syncope INDERAL LA also improves exercise performance The effectiveness of propranolol hydrochloride in this disease appears to be due to a reduction of the elevated outflow pressure gradient which is exacerbated by beta-receptor stimulation Clinical improvement may be temporary

CONTRAINDICATIONS. INDERAL is contraindicated in 1) cardiogenic shock 2) sinus bradycardia and greater than first-degree block, 3) bronchial asthma 4) congestive heart failure (see WARNINGS) unless the failure is secondary to a tachyarrhythmia treatable with INDERAL

WARNINGS. CARDIAC FAILURE Sympathetic stimulation may be a vital component supporting circulatory function in patients with congestive heart failure and its inhibition by beta blockade may precipitate more severe failure Although beta blockers should be avoided in overt congestive heart failure, if necessary they can be used with close follow-up in patients with a history of failure who are well compensated and are receiving digitalis and diuretics Beta-adrenergic blocking agents do not abolish the inotropic action of digitalis on heart muscle

ONCE-DAILY

INDERAL® LA

(PROPRANOLOL HCl)

LONG ACTING CAPSULES

60 mg
80 mg
120 mg
160 mg
*
80
A 120
LA 160

IN PATIENTS WITHOUT A HISTORY OF HEART FAILURE, continued use of beta blockers can, in some cases, lead to cardiac failure Therefore at the first sign or symptom of heart failure the patient should be digitalized and/or treated with diuretics, and the response observed closely, or INDERAL should be discontinued (gradually, if possible)

> IN PATIENTS WITH ANGINA PECTORIS, there have been reports of exacerbation of angina and, in some cases, myocardial infarction, following a*brupt* discontinuance of INDERAL therapy Therefore, when discontinuance of INDERAL is planned, the dosage should be gradually reduced over at least a few weeks, and the patient should be cautioned against interruption or cessation of therapy without the physician's advice If INDERAL therapy is interrupted and exacerbation of angina occurs, it usually is advisable to reinstitute INDERAL therapy and take other measures appropriate for the management of unstable angina pectoris Since coronary artery disease may be unrecognized, it may be prudent to follow the above advice in patients considered at risk of having occult atherosclerotic heart disease who are given propranolol for other indications

Nonallergic Bronchospasm (eg, chronic bronchitis, emphysema) -PATIENTS WITH BRONCHOSPASTIC DISEASES SHOULD IN GENERAL NOT RECEIVE BETA BLOCKERS INDERAL should be administered with caution since it may block bronchodilation produced by endogenous and exogenous catecholamine stimulation of beta receptors

MAJOR SURGERY The necessity or desirability of withdrawal of beta-blocking therapy prior to major surgery is controversial It should be noted, however, that the impaired ability of the heart to respond to reflex adrenergic stimuli may augment the risks of general anesthesia and surgical procedures

INDERAL (propranolol HCl), like other beta blockers, is a competitive inhibitor of beta-receptor agonists and its effects can be reversed by administration of such agents, eg, dobutamine or isoproterenol However, such patients may be subject to protracted severe hypotension Difficulty in starting and maintaining the heartbeat has also been reported with beta blockers.

DIABETES AND HYPOGLYCEMIA Beta blockers should be used with caution in diabetic patients if a beta-blocking agent is required Beta blockers may mask tachycardia occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be significantly affected Following insulin-induced hypoglycemia, propranolol may cause a delay in the recovery of blood glucose to normal levels

THYROTOXICOSIS Beta blockade may mask certain clinical signs of hyperthyroidism Therefore abrupt withdrawal of propranolol may be followed by an exacerbation of symptoms of hyperthyroidism, including thyroid storm Propranolol may change thyroid function tests, increasing T_4 and reverse T_3, and decreasing T_3

IN PATIENTS WITH WOLFF-PARKINSON-WHITE SYNDROME, several cases have been reported in which, after propranolol, the tachycardia was replaced by a severe bradycardia requiring a demand pacemaker In one case, this resulted after an initial dose of 5 mg propranolol

PRECAUTIONS. GENERAL Propranolol should be used with caution in patients with impaired hepatic or renal function INDERAL (propranolol HCl) is not indicated for the treatment of hypertensive emergencies

Beta-adrenoreceptor blockade can cause reduction of intraocular pressure Patients should be told that INDERAL may interfere with the glaucoma screening test Withdrawal may lead to a return of increased intraocular pressure

CLINICAL LABORATORY TESTS Elevated blood urea levels in patients with severe heart disease, elevated serum transaminase, alkaline phosphatase, lactate dehydrogenase

DRUG INTERACTIONS Patients receiving catecholamine-depleting drugs such as reserpine should be closely observed if INDERAL is administered The added catecholamine-blocking action may produce an excessive reduction of resting sympathetic nervous activity which may result in hypotension, marked bradycardia, vertigo, syncopal attacks, or orthostatic hypotension

Caution should be exercised when patients receiving a beta blocker are administered a calcium-channel-blocking drug especially intravenous verapamil, for both agents may depress myocardial contractility or atrioventricular conduction On rare occasions, the concomitant intravenous use of a beta blocker and verapamil has resulted in serious adverse reactions, especially in patients with severe cardiomyopathy, congestive heart failure or recent myocardial infarction

Aluminum hydroxide gel greatly reduces intestinal absorption of propranolol

Ethanol slows the rate of absorption of propranolol

Phenytoin, phenobarbitone, and *rifampin* accelerate propranolol clearance

Chlorpromazine, when used concomitantly with propranolol, results in increased plasma levels of both drugs

Antipyrine and *lidocaine* have reduced clearance when used concomitantly with propranolol

Thyroxine may result in a lower than expected T_3 concentration when used concomitantly with propranolol

Cimetidine decreases the hepatic metabolism of propranolol, delaying elimination and increasing blood levels

Theophylline clearance is reduced when used concomitantly with propranolol

CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY Long-term studies in animals have been conducted to evaluate toxic effects and carcinogenic potential In 18-month studies in both rats and mice, employing doses up to 150 mg/kg/day, there was no evidence of significant drug-induced toxicity There were no drug-related tumorigenic effects at any of the dosage levels Reproductive studies in animals did not show any impairment of fertility that was attributable to the drug

PREGNANCY Pregnancy Category C INDERAL has been shown to be embryotoxic in animal studies at doses about 10 times greater than the maximum recommended human dose

There are no adequate and well-controlled studies in pregnant women. INDERAL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

NURSING MOTHERS INDERAL is excreted in human milk Caution should be exercised when INDERAL (propranolol HCl) is administered to a nursing woman

PEDIATRIC USE Safety and effectiveness in children have not been established

ADVERSE REACTIONS. Most adverse effects have been mild and transient and have rarely required the withdrawal of therapy

Cardiovascular Bradycardia, congestive heart failure, intensification of AV block, hypotension, paresthesia of hands, thrombocytopenic purpura, arterial insufficiency, usually of the Raynaud type

Central Nervous System Light-headedness, mental depression manifested by insomnia lassitude, weakness, fatigue; reversible mental depression progressing to catatonia, visual disturbances, hallucinations, vivid dreams, an acute reversible syndrome characterized by disorientation for time and place, short-term memory loss, emotional lability, slightly clouded sensorium, and decreased performance on neuropsychometrics. For immediate formulations, fatigue, lethargy, and vivid dreams appear dose related

Gastrointestinal Nausea, vomiting, epigastric distress, abdominal cramping, diarrhea, constipation, mesenteric arterial thrombosis, ischemic colitis

Allergic Pharyngitis and agranulocytosis, erythematous rash, fever combined with aching and sore throat, laryngospasm and respiratory distress

Respiratory Bronchospasm

Hematologic Agranulocytosis, nonthrombocytopenic purpura, thrombocytopenic purpura

Auto-Immune In extremely rare instances, systemic lupus erythematosus has been reported

Miscellaneous Alopecia, LE-like reactions, psoriasiform rashes, dry eyes, male impotence, and Peyronie's disease have been reported rarely Oculomucocutaneous reactions involving the skin, serous membranes and conjunctivae reported for a beta blocker (practolol) have not been associated with propranolol

DOSAGE AND ADMINISTRATION. INDERAL LA provides propranolol hydrochloride in a sustained-release capsule for administration once daily If patients are switched from INDERAL Tablets to INDERAL LA Capsules, care should be taken to assure that the desired therapeutic effect is maintained INDERAL LA should not be considered a simple mg-for-mg substitute for INDERAL INDERAL LA has different kinetics and produces lower blood levels. Retitration may be necessary, especially to maintain effectiveness at the end of the 24-hour dosing interval

HYPERTENSION—*Dosage must be individualized* The usual initial dosage is 80 mg INDERAL LA once daily, whether used alone or added to a diuretic. The dosage may be increased to 120 mg once daily or higher until adequate blood-pressure control is achieved The usual maintenance dosage is 120 to 160 mg once daily In some instances a dosage of 640 mg may be required The time needed for full hypertensive response to a given dosage is variable and may range from a few days to several weeks

ANGINA PECTORIS—*Dosage must be individualized* Starting with 80 mg INDERAL LA once daily, dosage should be gradually increased at three- to seven-day intervals until optimal response is obtained Although individual patients may respond at any dosage level, the average optimal dosage appears to be 160 mg once daily In angina pectoris, the value and safety of dosage exceeding 320 mg per day have not been established

If treatment is to be discontinued, reduce dosage gradually over a period of a few weeks (see WARNINGS).

MIGRAINE—*Dosage must be individualized* The initial oral dose is 80 mg INDERAL LA once daily The usual effective dose range is 160-240 mg once daily The dosage may be increased gradually to achieve optimal migraine prophylaxis If a satisfactory response is not obtained within four to six weeks after reaching the maximal dose, INDERAL LA therapy should be discontinued It may be advisable to withdraw the drug gradually over a period of several weeks

HYPERTROPHIC SUBAORTIC STENOSIS—80-160 mg INDERAL LA once daily

PEDIATRIC DOSAGE—At this time the data on the use of the drug in this age group are too limited to permit adequate directions for use

*The appearance of these capsules is a registered trademark of Ayerst Laboratories

---

REFERENCES:

1. INDERAL LA National Compliance Evaluation Program Data on file, Ayerst Laboratories
2. Ravid M, Lang R, Jutrin I The relative antihypertensive potency of propranolol, oxprenolol atenolol, and metoprolol given once daily *Arch Intern Med* 1985, 145 1321-1323

1R7119/887

Ayerst

AYERST LABORATORIES
New York, NY 10017

© 1987 Ayerst Laboratories

Medical School News

The University of Missouri-Columbia

- **Susan H. Allen, Ph.D., M.D.,** postdoctoral fellow in the department of medicine, was selected to be one of 40 participants at the Summer Institute in Research on Aging in Baltimore, sponsored by the Department of Health and Human Services National Institute on Aging and the American Geriatrics Society.

- **Eugene B. Brody, M.D.,** recently received the Citation of Merit in Medicine award, presented by the School of Medicine Alumni Organization and the University of Missouri-Columbia Alumni Association. Among his other distinctions, Dr. Brody is secretary general and former president of the World Federation for Mental Health. He is editor-in-chief of the *Journal of Nervous and Mental Diseases*.

The Medical Alumni Organization also honored **Dan L. Longo, M.D.,** of the National Cancer Institute, and **G. Richard Holt, M.D.,** of University of Texas, with Young Physician Alumni Awards. **Robert J. Harris, M.D.,** a pediatrician in Columbia, won the Service Award, and **Brent M. Parker, M.D.,** professor of medicine, and **Allan Purdy,** board member of the Medical School Foundation, were made honorary alumni.

- **Dewey Cooper,** second-year medical student, won first place in the medical student competition of Student Research Day earlier this year for his basic science research of the metabolic effects of fetal-alcohol syndrome which was sponsored by the Department of Anatomy. **Vicki Thon** won first place in the graduate student competition for her research of a vaccine candidate for whooping cough, sponsored by the Department of Microbiology. Other winners among medical students were **Carl Gold** and **Jeffrey Jenkins.** Other graduate student winners were **Mark Souther** and **Joe Meyer.**

- **Richard Hillman, M.D.,** and **Laura Hillman, M.D.,** formerly of Washington University School of Medicine in St. Louis, have joined the faculty of the department of child health as professors. Richard Hillman directs a new metabolic screening laboratory. Laura Hillman is a researcher of sudden infant death syndrome and is an attending physician in the University's newborn intensive care unit.

- **Denise A. Johnson,** a fourth-year student in the School of Medicine, won the Dr. Richard Allen Williams Scholarship from the Association of Black Cardiologists.

- **Jagannadha Kandala, Ph.D.,** research assistant professor, and **Jan Svoboda, Ph.D.,** of the Institute of Molecular Genetics at the Czechoslovakian Academy of Sciences, have joined the microbiology department, working with **Ram Guntaka, Ph.D.,** associate professor of microbiology. Dr. Guntaka recently presented seminars on recombinant DNA techniques in Korea.

- **Paul Kaplan, M.D.,** chairman of physical medicine and rehabilitation, is editor and author of a 20-chapter book to be released this fall called *Musculoskeletal Pain and Rehabilitation*. This month he also begins a two-year term as president of the Association of Academic Physiatrists.

- **Ryszard B. Krol, M.D.,** assistant professor of cardiology, had his research of "Electrophysiologic Testing in Patients with Unexplained Syncope" published in the August, 1987 issue of the *Journal of the American College of Cardiology*.

- **Frank Mitchell, M.D.,** professor and director of emergency medicine, has been appointed chairman of the newly established trauma center verification committee by the American College of Surgeons. The committee will review hospitals nationally and give ACS certification of trauma center performance.

- **Richard Oliver, Ph.D.,** director of health related professions, says day care centers for adults will offer care not found in existing senior centers. The school received a $3,500 grant to research adult day care centers.

- **Larry J. Petterborg, Ph.D.,** assistant professor of anatomy, has been awarded a Swedish Medical Research Council Fellowship through the International Research and Awards Branch of the Fogarty International Center and the NIH. For the next year Dr. Petterborg will work with the Director of Psychiatry at the Karolinska Institute in Stockholm, Sweden investigating a possible genetic marker for depressive disorders.

- **Howard H. Roberts, M.D.,** a Joplin gynecologist, has been elected president of the Medical Alumni Organization. During the two-year term, Dr. Roberts says he hopes to get alumni more involved in the Medical School.

- **College minority students participated in the** *Cooperative Sciences Pre-Med Program* this summer at the School. The program hosted by the University of Missouri-Columbia and Lincoln University is designed to identify, encourage and recruit minority college students on both campuses who demonstrate interest in graduate and professional study.

- Members of Cosmopolitan International toured the *Cosmopolitan International Diabetes Center* at the University as part of the organization's annual convention in July this year. About 350 members of the club from across the country, Canada and Mexico came to see the Diabetes Center, which opened for patient care in 1984. The Cosmopolitans made the Center possible by raising almost $700,000 for equipment and construction of the center.

- The School's *Dialysis Clinic* has been named one of the country's 30 "Centers of Excellence" in Peritoneal Dialysis. Travenol Laboratories, Inc. is recognizing the Columbia clinic for its "outstanding Peritoneal Dialysis Program." It "was chosen for its demonstrated excellence in clinical and training practices associated with Peritoneal Dialysis," according to the award announcement.

- Ten minority high school students from Mid-Missouri participated in the *Minority High School Student Research Apprentice Program*. The eight-week program sponsored by the School of

Medicine is designed to encourage minority students to pursue careers in medicine or health related professions. Each student worked closely with faculty members from various departments.

St. Louis University

■ St. Louis University School of Medicine has established a $1.2 million endowed professorship in surgery honoring **C. Rollins Hanlon, M.D.**, former chairman of the department of surgery at the medical center.

The endowment was assembled principally from individual gifts by Dr. Hanlon's patients, students, colleagues and friends, with no gift larger than $50,000. Said **William Stoneman III, M.D.**, dean of the medical school and one of Dr. Hanlon's former students, "That so many individuals would contribute to this endowment is truly a testimony to the widespread affection for him and a tribute to Dr. Hanlon's excellence as a surgeon and an educator. He has had a tremendous influence on his field."

Dr. Hanlon is best known in St. Louis as a pioneer in heart surgery. In 1956, he led a 12-person team in the first open heart surgery in the lower Midwest region. During the next 13 years, surgical teams at the medical center performed more than 1,200 of these operations under his direction.

Dr. Hanlon came to St. Louis University in 1950 as the school's first full-time chairman of surgery. He spent 19 years at the medical center, leaving in 1969 to become director of the American College of Surgeons. In 1986, he retired as executive director and now serves the organization as executive consultant.

Dr. Hanlon received his medical degree from Johns Hopkins University School of Medicine in 1938. He received his surgery education at Johns Hopkins, the University of Cincinnati and the University of California-San Francisco. He served in the U.S. Navy during World War II.

Returning to Johns Hopkins after the war, he participated in the refinement of operations for congenital heart disease. With **Alfred Blalock, M.D.**, he developed an operation for infants born with transposition of the great arteries.

His legacy at St. Louis University also includes early research in heart transplantation. Under Dr. Hanlon, **Vallee L. Willman, M.D.**, conducted the research in transplants that led to the first human heart transplant in St. Louis performed at the medical center in 1972. Dr. Willman, chairman of the department of surgery, succeeded Dr. Hanlon in that post.

The first person to hold the C. Rollins Hanlon Chair of Surgery will be announced at a later date.

■ A microbiologist at St. Louis University School of Medicine has been awarded two grants totaling nearly half a million dollars from the National Institutes of Health. **Hans Peter Zassenhaus, Ph.D.**, assistant professor of microbiology, will study the regulation of gene expression in cells. Dr. Zassenhaus has been studying gene expression in the cells for the past 10 years.

Zassenhaus came to St. Louis University in 1983. Previously, he was a research fellow in molecular biology at the University of Texas Health Sciences Center in Dallas, Texas.

■ A study is currently underway at St. Louis University Medical Center to help determine whether administration of low doses of estrogen with periodic doses of progestogen will reduce the risk of uterine cancer and effectively treat moderate to severe menopausal symptoms. **Matthias H. Backer, Jr., M.D.**, is principal investigator.

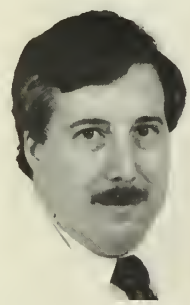
Historically, estrogen replacement therapy has been the treatment of choice for relieving menopausal symptoms. However, several studies report that long-term administration of estrogen by itself can overstimulate the lining of the uterus, sometimes causing abnormal growth, and possibly cancer. This overgrowth can be prevented by the intermittent administration of progestogens, which oppose the stimulatory effects of the estrogens on the lining of the uterus.

This study will evaluate the lowest effective level of progestogen able to prevent abnormal growth and will measure the effect of estrogen and progestogen on body lipids.

■ A physiologist at St. Louis University School of Medicine has received a $422,720 grant from the National Heart, Lung and Blood Institute. **Maw-Shung Liu, D.D.S., Ph.D.**, professor of physiology, will continue his studies of septic shock and its effects on the heart.

Dr. Liu has taught physiology to both medical and dental students, concentrating in cardiovascular physiology. He earned his dental degree at Kaohsiung Medical College in Taiwan and his doctorate in physiology from the University of Ottawa. He has been at St. Louis University since 1982.

■ **David J. Schanzlin, M.D.**, has been named professor and chairman of the department of ophthalmology at St. Louis University School of Medicine and medical director of Bethesda Eye Institute.



Dr. Schanzlin comes to St. Louis University Medical Center and the Bethesda Eye Institute from the Estelle Doheny Eye Foundation at the University of Southern California, where he was professor and director of the Anderson Corneal Research Laboratory.

Dr. Schanzlin specializes in cataract surgery and cornea surgery. The majority of his research has been devoted to diseases of the cornea and refractive surgery. He serves as principal investigator for two National Institutes of Health studies, one which concentrates on eye injuries and another which evaluates radial keratotomy.

He will also continue two of his other research projects, one funded by Allergan Medical Optics and the other funded by Kera Corneal Devices, Inc.

After receiving his medical degree and completing his residency at the University of Chicago, Dr. Schanzlin served fellowships at the University of Pittsburgh and the University of California at San Francisco. He is currently active in more than 15 professional organizations, including the American Academy of Ophthalmology. He has contributed to more than 100 publications and abstracts and has spoken throughout the world regarding his research.

■ St. Louis University Medical Center is participating in a research study which will evaluate two FDA-approved drugs, Restoril and Halcion, used in the treatment of insomnia. The study will be conducted through the division of geriatric psychiatry at the medical center's David P. Wohl Sr. Memorial Institute. **Raj Nakra, M.D.**, is principal investigator.

The purpose of the study is to examine the safety and effects of Restoril and Halcion on the quality of sleep in elderly patients. Both drugs are commonly prescribed for insomnia in the elderly.

■ St. Louis University Medical Center is one of three centers nationwide participating in a research study which will evaluate vinpocetine. The investigational drug is used to treat Alzheimer's disease, the most common cause of progressive senility in the elderly.

The study, under the direction of **Raj Nakra, M.D.**, is being conducted through the medical center's division of geriatric psychiatry in the department of psychiatry.

- St. Louis University School of Medicine's class of 1947 made a gift to the school at the 1987 pre-commencement exercises. Headed by **Charles Cherre, M.D.**, the class effort raised $1.2 million, after matching funds and investments. The funds will be designated for professorships, student aid and unrestricted endowment. The gift is the first in the medical center's Alumni Class Endowment (ACE) program.

- **Ray Tait, Ph.D.**, director of the Pain Management Program at St. Louis University Medical Center, presented two papers at the World Congress of the International Association for the Study of Pain. The Congress met in Hamburg, Germany, August 2-7.

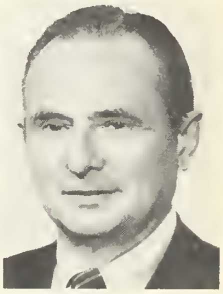
- The medical staff at The University Hospital at St. Louis University Medical Center elected medical staff officers for the 1987-88 term. **James G. Coates, M.D.**, is president; **William Webber, M.D.**, is vice president; **Hartmut Kannegiesser, M.D.**, is secretary/treasurer. Elected officers-at-large were **Paul J. Petruska, M.D.**, and **Herman Ferrell, M.D.** The hospital's outgoing president is **Philip Conway, M.D.**

- **Vernon Yeager, Ph.D.**, professor of anatomy at St. Louis University School of Medicine, served on the faculty of the Colorado Symposium on Emergency Care held April 25-28. Dr. Yeager presented lecture demonstrations on cadaver dissection at the four-day training program for health care professionals in the health care field.

Washington University

- The Lipid Research Center Laboratory at Washington University School of Medicine in St. Louis has been awarded a two-year accreditation by the College of American Pathologists (CAP).

The accreditation, based on results of an on-site inspection by the CAP Commission on Laboratory Accreditation, cites laboratory director **Thomas G. Cole, Ph.D.**, and his staff for excellence in services provided to patients and their physicians. The lab is one of 3,600 CAP-accredited laboratories nationwide.

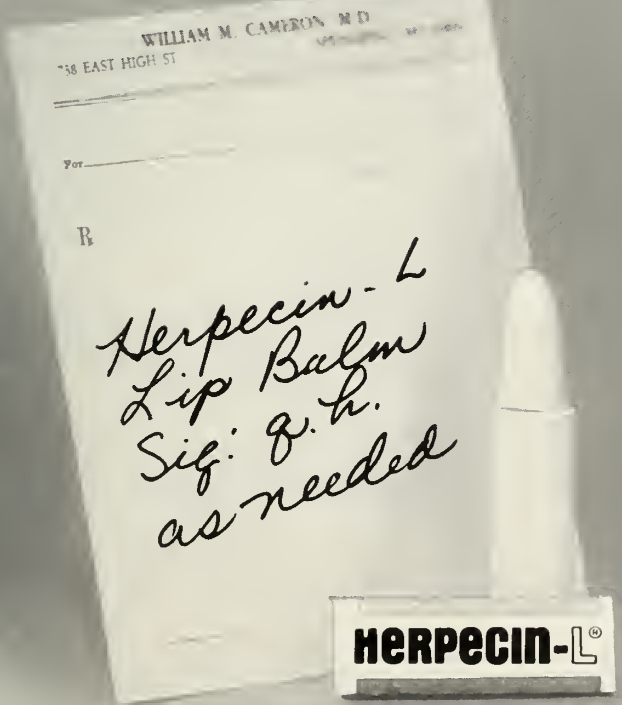


- Two faculty members at Washington University School of Medicine in St. Louis have been elected members of the prestigious Institute of Medicine of the National Academy of Sciences.

New members of the institute are **Michel M. Ter-Pogossian, Ph.D.**, and **Samuel A. Wells, Jr., M.D.** Ter-Pogossian is professor of radiology at the School of Medicine and director of radiation sciences for Mallinckrodt Institute of Radiology. Wells is Bixby Professor and chairman of the Department of Surgery at the medical school. He is also chief of surgery at Barnes and Children's Hospitals, sponsoring institutions of the Washington University Medical Center.

The two are among 40 new members elected to the institute in recognition

Dx: recurrent herpes labialis



"HERPECIN-L is my **treatment of choice** for perioral herpes." GP, NY

"HERPECIN-L appears to actually **prevent** the blisters . . . used **soon enough.**" DDS, MN

"HERPECIN-L®. . . a **conservative approach** with **low risk/high benefits.**" MD, FL

"Used at **prodromal symptoms** . . . blisters **never formed** . . . remarkable." DH, MA

"(In clinical trials) . . . **response** was **dramatic. HERPECIN-L** . . proven **far superior.**" DDS, PA

"All patients claimed **shorter duration** . . . at **prodromal symptoms** . . . HERPECIN-L **averted** the attacks." MD, AK

OTC. *See P.D.R.* for information. For samples to make your own clinical evaluation, write: CAMPBELL LABORATORIES, INC., P.O. BOX 812-MD, FDR STATION, NEW YORK, N.Y. 10150

In Missouri HERPECIN-L is available at all *Medicare-Glaser, Osco and Walgreens* and other select pharmacies.

of their contributions to health and medicine or related fields. As members of the institute, which was established in 1970, Wells and Ter-Pogossian will help examine health policy issues and advise the federal government.

Ter-Pogossian is often described as the father of positron emission tomography (PET). PET scanners provide images of physiological activity in the brain and other organs of the body, permitting scientists to evaluate changes in organs during disorders such as heart attacks, strokes, depression, epileptic seizures, anxiety attacks and Parkinson's disease. Ter-Pogossian received his master's degree and doctorate from Washington University, and has conducted research here for nearly 40 years.

Wells is known for his research on endocrine diseases, particularly the transplantation of endocrine tissues and the identification of tumor markers that are useful in the diagnosis and localization of endocrine tumors. Wells received his medical degree from Emory University, and has been at Washington University since 1981.

There are now 13 faculty members at Washington University who are members of the Institute of Medicine. Total active membership nationwide is 468.

■ **Dennis D. M. O'Leary, Ph.D.**, has been named an Alfred P. Sloan Research Fellow for 1987-89 and a McKnight Scholar for 1987-90. O'Leary is an assistant professor in the departments of neurology and neurosurgery, and of anatomy and neurobiology.

Sloan fellowships provide a $25,000 grant to young scientists in physics, chemistry, mathematics, economics and neuroscience. This year 90 scientists were chosen from a field of 400 candidates from the United States and Canada.

O'Leary also was selected as one of five recipients of the McKnight Scholars Award, presented each year by the McKnight Endowment Fund for Neuroscience. The award provides funding of $105,000 over three years.

O'Leary's research focuses on mechanisms that bring out the regional specialization of the developing cortex.

O'Leary joined the faculty at Washington University in 1986, coming to St. Louis from the Salk Institute in San Diego, where he had been a research assistant professor. He received his doctorate in neurosciences from Washington University in 1983. He conducted his thesis work at the Salk Institute from 1980-83, and held a postdoctoral fellowship there from 1983-85.

■ Two neurosurgeons from Washington University School of Medicine in St. Louis were among a select group invited to the White House recently to celebrate the dedication of a new postage stamp to honor **Harvey Cushing, M.D.**

Cushing, generally considered the father of modern neurosurgery, has been selected to be part of the Great American Series of stamps offered by the U.S. Postal Service.

Washington University neurosurgeons **Henry G. Schwartz, M.D.,** and **Sidney Goldring, M.D.,** both attended a dedication ceremony and reception hosted by President and Mrs. Reagan in April at the White House. Schwartz and Goldring are both past presidents of the American Association of Neurological Surgeons, which was founded as the Harvey Cushing Society in 1931. Schwartz was head of the Department of Neurological Surgery at the medical school from 1946-74; Goldring, current head, succeeded him in 1974.

℞ HEALTH CARE PROFESSIONALS

DON'T MISS

GATEWAY '87
MEDICAL EXPOSITION
AND SYMPOSIUM

November 11-12, 1987

CERVANTES CONVENTION CENTER
ST. LOUIS, MO

OVER 150 EXHIBITS

SYMPOSIUM

AIDS • Teen Suicide • Substance Abuse • Quality of Care & Assurance Changing Practice Patterns • Changing Trends in Physician Compensation • Doctor to Doctor Talk Show – KMOX Radio

SPEAKERS

Dennis O'Leary, M.D. — JCAH President
Armand E. Brodeur, M.D.
Brant S. Mittler, M.D., P.A.

FREE ADMISSION

SPONSORED BY THE ST. LOUIS METROPOLITAN MEDICAL SOCIETY

FOR MORE INFO, CONTACT ROBERT DONNELL PRODUCTIONS 800-243-9774
or the ST. LOUIS METROPOLITAN MEDICAL SOCIETY AT 314-371-5225

Cushing is best known for his work with brain tumors and his studies of the pituitary gland function. The stamp in his honor will be issued in 1988. Three other physicians have been included in the Great American Stamp Series: **Charles Drew**, **Mary Walker** and **Paul Dudley White.**

- The PET research team at Mallinckrodt Institute of Radiology has been awarded almost $7 million in a five-year grant from the National Heart, Lung, and Blood Institute. The $6,920,838 grant will support the research team's cyclotron project through its 29th year, making the grant one of the longest running at Washington University.

Cyclotrons produce the radioactive nuclides that are necessary for PET scanners to produce images. The images produced by PET scanners (positron emission tomography) permit scientists to see metabolic changes as they take place in various organs.

The PET research team is headed by **Michel M. Ter-Pogossian, Ph.D.**, professor of radiology and director of radiation sciences for Mallinckrodt Institute of Radiology. Ter-Pogossian is often referred to as father of the PET scanner because in 1974, with Mallinckrodt colleagues, he pioneered the first method for assessing biochemical changes in the body using positron emission tomography.

Other members of the PET research team include **Marcus E. Raichle, M.D.**, professor of radiology, neurology and neurological surgery; **Daniel P. Schuster, M.D.**, assistant professor of medicine; **Burton E. Sobel, M.D.**, Tobias and Hortense Lewin Professor of Cardiovascular Diseases in medicine; and **Michael J. Welch, Ph.D.**, professor of radiology.

- The employees of McDonnell Douglas, through their Employee Charity and Community Services Program, have donated $10,000 to Washington University School of Medicine in St. Louis to help support research on epidermolysis bullosa (EB), the "thin skin" disease.

The medical school's EB center is one of the few sites in the nation to study this rare genetic skin disorder that blisters, scars and destroys the skin and mucous membranes. Sixteen varieties of EB threaten the lives of 25,000-50,000 Americans, most of them children.

Working under a five-year, $2.5 million grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases, four centers are creating a national patient registry to compile information about various forms of the disease and to provide a list of patients who may be interested in taking part in research projects. Other centers collaborating on the registry are the University of Alabama-Birmingham, the University of Washington School of Medicine in Seattle and Rockefeller University in New York.

The Washington University EB center is directed by **Eugene A. Bauer, M.D.**, professor of dermatology at the medical school and a physician at Barnes, Children's and Jewish hospitals, sponsoring institutions of the Washington University Medical Center. More information is available from the EB center at 314-362-8171.

Learn how to run
a more profitable
practice. Call
314/636-5151
for workshop details.

HOW IMPROVED CPT CODING CAN INCREASE YOUR REVENUE

According to the AMA, errors in CPT Coding and inadequate reporting of CPT codes cost physicians **thousands** of dollars in lost revenues every year. Our client experience certainly supports that statement.

We are now able to offer you professional assistance, certified by the American Medical Records Association, to analyze your CPT Coding procedures, make recommendations that can improve your collections, and train your staff on how to help you collect your fair fees.

If you feel your practice would benefit by a CPT Coding Evaluation, please call **(913)268-0001** and ask for Dr. Jan Woerth.

Medical Management Resources, Inc.
11409 W. 72nd Terrace
Shawnee, Kansas 66203

New Members

- **Douglas S. Anderson, M.D.,** 2900 Baltimore, Suite 400, Kansas City, MO 64108, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Anderson received his preliminary education at the University of Kansas and obtained his medical degree at the University of Kansas in 1986. He is completing his residency at St. Mary's Hospital, Kansas City, MO. He specializes in family practice.

- **Philip C. Blum, M.D.,** 6400 Prospect, #138, Kansas City, MO 64132, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Blum received his preliminary education at the University of New Hampshire and obtained his medical degree at the University of Nebraska in 1974. He completed his residency at the University of California, San Diego, CA. He specializes in anesthesiology.

- **Timothy K. Burch, M.D.,** 1010 Carondelet, Suite 126, Kansas City, MO 64114, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Burch received his preliminary education at Kansas State University and obtained his medical degree at the Kansas University School of Medicine in 1972. He completed his residency at St. Luke's Hospital, Kansas City, MO. He specializes in anatomic and clinical pathology.

- **Bruce H. Cohen, M.D.,** Suite 17423, 4949 Barnes Hospital Plaza, St. Louis, MO 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Cohen received his preliminary education at Harvard College and obtained his medical degree at the Johns Hopkins University School of Medicine in 1980. He completed his residency at the Washington University School of Medicine, St. Louis, MO. He specializes in ophthalmology.

- **Elizabeth W. Diehl, M.D.,** 1465 S. Grand, St. Louis, MO 63104, has become a member of the St. Louis Metropolitan Medical Society. Dr. Diehl received her preliminary education at Washington University and obtained her medical degree at St. Louis University in 1986. She is completing an internship at St. Louis University Group Hospitals. She specializes in pediatrics.

- **Susan E. Farrell, M.D.,** Children's Mercy Hospital, 24th & Gillham Road, Kansas City, MO 64108, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Farrell obtained her medical degree at the University of Kansas in 1971. She completed her residency at the University of North Carolina, Chapel Hill, NC. She specializes in developmental pediatrics.

- **Jonathon K. Foley, M.D.,** 10 Doctors Park, Cape Girardeau, MO 63701, has become a member of the Cape Girardeau County Area Medical Society. Dr. Foley received his preliminary education at the University of Missouri-Kansas City and obtained his medical degree at UMKC in 1982. He completed his residency at Truman Medical Center, Kansas City, MO. He specializes in general and vascular surgery.

- **James E. Gaba, M.D.,** 100 West 31st Street, Kansas City, MO 64108, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Gaba received his preliminary education at Memphis State College and obtained his medical degree at the University of Tennessee Health Science Center in 1954. He completed his residency at Thomas Scruggs, M.D. Rankin Fite Memorial Hospital, Winfield, AL. He specializes in occupational medicine and surgery.

- **Richard E. Hayden, M.D.,** C.M., 4911 Barnes Hospital Plaza, St. Louis, MO 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Hayden received his preliminary education at Mount Allison University-New Brunswick and obtained his medical degree at McGill University-Quebec in 1974. He completed his residency at the University of Toronto, Toronto, Ontario. He specializes in otolaryngology.

- **Micki Klearman, M.D.,** East Pavilion Suite 16422, Barnes Hospital Plaza, St. Louis, MO 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Klearman received her preliminary education at Stanford University and obtained her medical degree at Washington University School of Medicine in 1981. She completed her residency at Jewish Hospital, St. Louis, MO. She specializes in internal medicine.

- **David N. Krojanker, M.D.,** 1221 S. Grand Blvd., St. Louis, MO 63104, has become a member of the St. Louis Metropolitan Medical Society. Dr. Krojanker received his preliminary education at St. Louis University and obtained his medical degree at the St. Louis University School of Medicine in 1985. He is completing his residency at St. Louis University Hospitals, St. Louis, MO. He specializes in psychiatry.

- **Alan E. Lichtin, M.D.,** 2411 Holmes, U. of Missouri-Kansas City School of Medicine, Kansas City, MO 64108, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Lichtin received his preliminary education at the University of Cincinnati and obtained his medical degree at the University of Cincinnati School of Medicine in 1980. He completed his residency at the University Hospital of Cleveland, Cleveland, OH. He specializes in hematology-oncology.

- **Alicia D. Monroe, M.D.,** 2900 Baltimore, Suite 400, Kansas City, MO 64108, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Monroe received her preliminary education at Brown University and obtained her medical degree at Indiana University in 1977. She completed her residency at Methodist Hospital, Indianapolis, IN. She specializes in family practice.

- **Patricia L. Monteleone, M.D.,** 1465 S. Grand, St. Louis, MO 63104, has become a member of the St. Louis Metropolitan Medical Society. Dr. Monteleone received her preliminary education at St. Louis University and obtained her medical degree at the St. Louis University School of Medicine in 1961. She completed her residency at Cardinal Glennon Children's Hospital, St. Louis, MO. She specializes in pediatrics.

- **Timothy P. O'Connor, M.D.,** 1325 S. Grand Blvd., St. Louis, MO 63104, has become a member of the St. Louis Metropolitan Medical Society. Dr. O'Connor received his preliminary education at the University of Notre Dame and obtained his medical degree at Indiana University in 1986. He is completing an internship at St. Louis University Group Hospitals. He specializes in general surgery.

Cost
quality

It Shouldn't Even Be a Contest

You want what's best for your patients—not what's cheapest. Medicine shouldn't be practiced any other way.

Yet today's physicians are wrestling with a troublesome array of cost-containment initiatives: fee freezes, arbitrary caps on Medicare reimbursement, even restrictions on access to care. The stakes are high—life or death.

The AMA is in favor of cost-effectiveness, but not at the expense of quality care—or physicians' freedom to provide it. So we're acting, not reacting—by delivering cost-effectiveness information at special workshops and annual meetings; by offering publications including the Physician's Cost Containment Checklist; and by launching programs, such as the Cost-Effectiveness Network for hospital staffs to test cost-effectiveness strategies, and the Health Policy Agenda for the American People, a long-range set of directions and priorities for health care.

In Washington, D.C., and in court, we're fighting government-imposed fee freezes and other attempts to restrict the rights of physicians and patients.

You can fight back—by joining the AMA. Together, we'll help make sure that quality wins—every time.

For information, call toll-free 800/621-8335 (in Illinois, call collect 312/645-4987), or return this coupon to:

The American Medical Association

Division of Membership
535 North Dearborn, Chicago, Illinois 60610

Please send me AMA membership information.

☐ I am a member of my county medical society.

Name

Street

City State Zip

County

14-058

■ **MaryBeth Pereira, M.D.**, East Pavilion Suite 16422, Barnes Hospital Plaza, St. Louis, MO 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Pereira received her preliminary education at Swarthmore College and obtained her medical degree at the University of California-San Diego in 1978. She completed her residency at Jewish Hospital, St. Louis, MO. She specializes in internal medicine.

■ **Raana J. Ponstingl, M.D.**, 10010 Kennerly Rd., St. Louis, MO 63128, has become a member of the St. Louis Metropolitan Medical Society. Dr. Ponstingl received her preliminary education at the University of Missouri-St. Louis and obtained her medical degree at the Pahlavi University School of Medicine-Iran in 1978. She completed her residency at St. Mary's Health Center, St. Louis, MO. She specializes in internal medicine.

■ **Conchita M. Redmon, M.D.**, 270 W. Mt. Vernon, Nixa, MO 65714, has become a member of the Greene County Medical Society. Dr. Redmon received her preliminary education at the University of Philippines and obtained her medical degree at the University of Philippines College of Medicine in 1969. She completed her residency at St. Francis Hospital, Honolulu, HI. She specializes in internal medicine/emergency medicine.

■ **Jacques S. Van Ryn, M.D.**, 3472 Bridgeland Suite E, Bridgeton, MO 63044, has become a member of the St. Louis Metropolitan Medical Society. Dr. Van Ryn received his preliminary education at the United States Air Force Academy and obtained his medical degree at Albany Medical College in 1979. He completed his residency at Willford Hall USAF Medical Center, Lackland AFB, TX. He specializes in orthopaedics.

■ **Niko A. Van Zanten, M.D.**, Box 421, Osceola, MO 64776, has become a member of the West Central Missouri Medical Society. Dr. Van Zanten received his preliminary education at Piylands Lyceum-The Netherlands and obtained his medical degree at the State University of Sroninge-The Netherlands in 1973. He completed his residency at St. Mary's Hospital, Kansas City, MO. He specializes in family practice.

■ **Dane M. Wicks, M.D.**, 626 E. Battlefield, Springfield, MO 65807, has become a member of the Greene County Medical Society. Dr. Wicks received her preliminary education at the University of New Mexico and obtained her medical degree at the University of New Mexico School of Medicine in 1981. She completed her residency at the University of Missouri-Columbia Hospital and Clinics, Columbia, MO. She specializes in family practice.

■ New Student Members

Washington University

Steven D. Rettinger

St. Louis University

Pamela J. Edwards
Kent L. Killian
Judson F. Martin
Gerhard H. Muelheims
Stephen D. Schmidt
Andrew Walker

University of Missouri-Kansas City

Ida Alvl
Cynthia M. Bellon
Maria C. Dumadag
Johnna K. Wilcox

University of Missouri-Columbia

Mary J. Fisher
Robert E. Henson II
A. Mushinsky-Tralles

1,141 Physicians Thank You

Your financial support of the Missouri State Medical Foundation has provided more than $2,400,000 in 2,598 loans to deserving medical students. Physicians throughout the nation thank you for your assistance.

Missouri State Medical Foundation • P.O. Box 1028 • Jefferson City, MO 65102

Motrin® 800 TABLETS mg
ibuprofen

MOTRIN
800mg

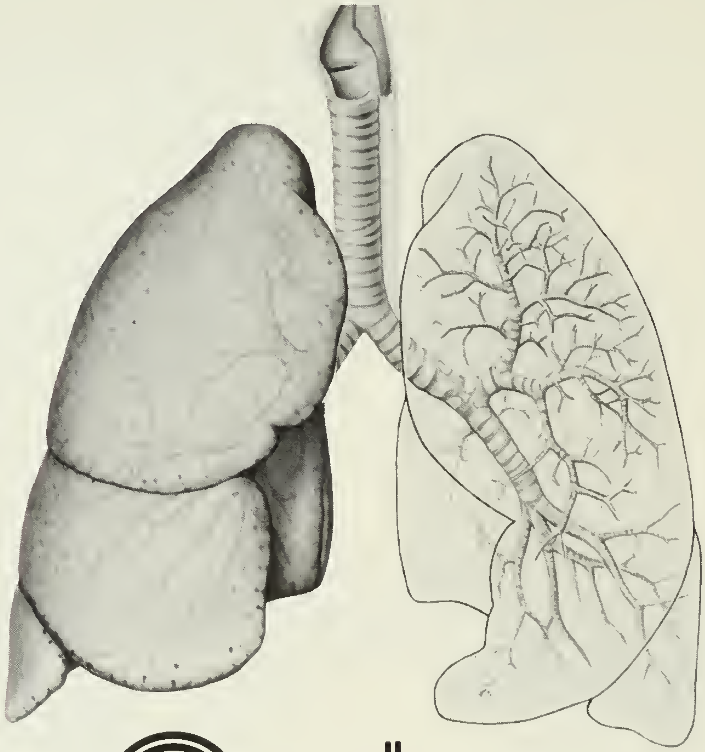
Extra strength
Convenience
Economy

Upjohn
A Century
of Caring
1886-1986

©1986 The Upjohn Company

J-6138 January 1986

Consider the causative organisms...



Ceclor® cefaclor

250-mg Pulvules® t.i.d.

offers effectiveness against the major causes of bacterial bronchitis

Haemophilus influenzae, Streptococcus pneumoniae
(ampicillin-susceptible and ampicillin-resistant)

Note: Ceclor is contraindicated in patients with known allergy to the cephalosporins and should be given cautiously to penicillin-allergic patients.

Penicillin is the usual drug of choice in the treatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever. See prescribing information.

Ceclor® (cefaclor)

Summary. Consult the package literature for prescribing information.

Indications: Lower respiratory infections, including pneumonia, caused by susceptible strains of *Streptococcus pneumoniae, Haemophilus influenzae*, and *Streptococcus pyogenes* (group A β-hemolytic streptococci).

Contraindication:
Known allergy to cephalosporins.

Warnings:
CECLOR SHOULD BE ADMINISTERED CAUTIOUSLY TO PENICILLIN-SENSITIVE PATIENTS. PENICILLINS AND CEPHALOSPORINS SHOW PARTIAL CROSS-ALLERGENICITY POSSIBLE REACTIONS INCLUDE ANAPHYLAXIS

Administer cautiously to allergic patients.

Pseudomembranous colitis has been reported with virtually all broad-spectrum antibiotics. It must be considered in differential diagnosis of antibiotic-associated diarrhea. Colon flora is altered by broad-spectrum antibiotic treatment, possibly resulting in antibiotic-associated colitis.

Precautions:
- Discontinue Ceclor in the event of allergic reactions to it.
- Prolonged use may result in overgrowth of nonsusceptible organisms.
- Positive direct Coombs' tests have been reported during treatment with cephalosporins.
- Ceclor should be administered with caution in the presence of markedly impaired renal function. Although dosage adjustments in moderate to severe renal impairment are usually not required, careful clinical observation and laboratory studies should be made.
- Broad-spectrum antibiotics should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.
- Safety and effectiveness have not been determined in pregnancy, lactation, and infants less than one month old. Ceclor penetrates mother's milk Exercise caution in prescribing for these patients.

Adverse Reactions: (percentage of patients)

Therapy-related adverse reactions are uncommon. Those reported include:
- Gastrointestinal (mostly diarrhea): 2.5%.
- Symptoms of pseudomembranous colitis may appear either during or after antibiotic treatment.
- Hypersensitivity reactions (including morbilliform eruptions, pruritus, urticaria, and serum-sickness-like reactions that have included erythema multiforme [rarely, Stevens-Johnson syndrome] or the above skin manifestations accompanied by arthritis/arthralgia and, frequently, fever): 1.5%; usually subside within a few days after cessation of therapy. Serum-sickness-like reactions have been reported more frequently in children than in adults and have usually occurred during or following a second course of therapy with Ceclor. No serious sequelae have been reported. Antihistamines and corticosteroids appear to enhance resolution of the syndrome.
- Cases of anaphylaxis have been reported, half of which have occurred in patients with a history of penicillin allergy
- As with some penicillins and some other cephalosporins, transient hepatitis and cholestatic jaundice have been reported rarely.
- Rarely, reversible hyperactivity, nervousness, insomnia, confusion, hypertonia, dizziness, and somnolence have been reported.
- Other: eosinophilia, 2%; genital pruritus or vaginitis, less than 1%; and, rarely, thrombocytopenia.

Abnormalities in laboratory results of uncertain etiology
- Slight elevations in hepatic enzymes.
- Transient fluctuations in leukocyte count (especially in infants and children).
- Abnormal urinalysis; elevations in BUN or serum creatinine.
- Positive direct Coombs' test.
- False-positive tests for urinary glucose with Benedict's or Fehling's solution and Clinitest® tablets but not with Tes-Tape® (glucose enzymatic test strip, Lilly).

[072886R]

PA 8794 AMP

©1987, ELI LILLY AND COMPANY

Lilly

700241

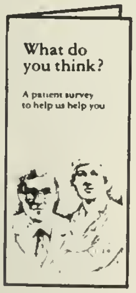
Additional information available to the profession on request from Eli Lilly and Company, Indianapolis, Indiana 46285.

Eli Lilly Industries, Inc
Carolina, Puerto Rico 00630

An Invitation . . .

The Editorial Board of *Missouri Medicine* invites the members of the Missouri State Medical Association to submit examples of their art work for publication on the cover of *Missouri Medicine*. Color photographs, preferably transparencies, as well as photographs of paintings, drawings, sculpture, ceramics, jewelry, etc. are all welcome. There is no limit as to subject, although pictures of Missouri or subjects topical to a month or season may have a slight advantage. Please submit entries to "Cover," *Missouri Medicine*, P.O. Box 1028, Jefferson City, MO 65102.

How do you rate?


What do you think?
A patient survey to help us help you

How do your patients view your practice, your office staff and routines, your appointment scheduling?

The MSMA's Patient Survey Brochure is a small, concise, yet useful survey you can enclose with patient billings or place with waiting room reading material. The opinions your patients can provide may help you make definite practice-building decisions.

Available from **MSMA Communications, P.O. Box 1028, Jefferson City, MO 65102**
Cost: 10¢ each, or write for a free sample copy.

Can you top this?

* Compare these graded premium whole life rates with any term:

Age	*$100,000*	*$250,000*	*$500,000*	*$1,000,000*
30	$118	$ 195	$ 371	$ 695
35	120	201	384	725
40	149	253	480	935
45	179	322	615	1205
50	221	405	770	1535
55	314	593	1160	2295
60	506	998	1974	3915
65	837	1700	3384	6725

Non-Smoker Annual Rates Shown

- ★ Premiums are guaranteed for the first 5 policy years.
- ★ Convertible to any level premium whole life offered by company.
- ★ Premiums increase each year to age 75 then level.
- ★ Rated an "A" Excellent Life Company by A. M. Best Co.

For more information, return this form or contact:

Wes Woodbury & Associates
3609 NE 62nd Terrace
Kansas City, MO 64119
816-455-3400

Amount of insurance $ ____________

Date of Birth ____________

Smoker/Non-Smoker (circle one)

Name ____________

Address ____________

City/State ____________

Zip ____________ Phone ____________

Information for Contributors

Articles are accepted for publication on condition that they are contributed solely to this journal. Material appearing in Missouri Medicine is protected by copyright.

Manuscripts should be submitted to the editor, Jordan W. Burkey, M.D., P.O. Box 1028, 113 Madison, Jefferson City, Mo. 65102. The transmittal letter should designate one author as correspondent and include his address and telephone number.

In addition, in view of *The Copyright Revision Act of 1976*, effective Jan. 1, 1978, transmittal letters to the editor should contain the following language: "In consideration of the Missouri State Medical Association's taking action in reviewing and editing my submission, the author(s) undersigned hereby transfers, assigns or otherwise conveys all copyright ownership to the MSMA in the event that such work is published by the MSMA." We regret that transmittal letters not containing the foregoing language signed by all authors of the submission will necessitate delay in review of the manuscript. Please include the title of the article in the transmittal letter.

Manuscripts

Manuscripts should be typewritten, double spaced, and the original with one copy submitted. Retain another copy for proofreading. Please number the pages of your manuscript. Manuscripts are not returned. Hospital and University appointments of the author(s) should accompany the manuscript. A synopsis-abstract of no more than 75 words should accompany the manuscript.

References

References should be cited in numerical order in the text and arranged at the end of the article in the same order in which they are cited. The reference should give name of author, title of article, name of periodical, volume number, initial page number and year. Authors are responsible for reference accuracy.

Illustrations

Illustrations should be glossy prints or drawings in India ink on white paper. They should not be mounted and name of author and figure number should be penciled lightly on the back. Legends should appear on a separate sheet.

Legal difficulties may arise from unauthorized use of names, initials or photographs in which individuals can be identified. Permission should be secured from patient or legal guardian and signed duplicate or photostat submitted with such photographs or identification. The Editor and Editorial Board assume no responsibility for the opinions and claims expressed in articles contributed by authors. If citation of an institution related to the article is made, approval of the chief of service should be given in a letter accompanying the article.

Reprints

Reprint order blanks will accompany proof, which will be sent to authors prior to publication.

Editorials

Editorials should be written in clear, concise language. Length should be about two or three pages typed with double spacing.

Letters

Letters will be published at the discretion of the editor, managing editor, and Editorial Board.

Deadline

All material other than scientific should be received prior to the first of the month preceding month of publication.

Index to Advertisers

Ayerst Labs **578B-D, 602A-D**

Army National Guard **584**

Campbell Labs **605**

D.O.C., Inc. **584**

E. F. Hutton **564**

Eli Lilly **610B**

Forrest T. Jones **599**

Fred S. James **580**

General American/Medicare Part B **566**

Goetze-Niemer **602**

Insurance Corporation of America **586**

Marion Labs **578, 578A, 570A-B**

Medical Defense Associates **574**

Medical Management Resources **607**

Medical Protective Company **602**

Mid-America Computing **577**

Michael Ruffin **582**

MOMEDICO **562**

Naval Reserves **616**

Omaha Mid-West Clinical Society **582**

Risk Control Associates **616**

Roche Laboratories **614, 615, 619, 620**

The Shealy Institute **600**

Spectrum Emergency Care **616**

SSM Rehabilitation **582**

United Missouri Banks **573**

The Upjohn Company **610A**

Wes Woodbury **611**

Continuing Medical Education

The continuing medical education accreditation program of the MSMA has full approval by the AMA's Council on Medical Education. The institutions and functions listed here qualify for Category I credit for the AMA Physician's Recognition Award. All accredited institutions in Missouri are invited to send this information for listing in MISSOURI MEDICINE. Please remember to include the name of the individual who can be contacted at your institution for additional information about your CME events.

September

19 **"Second Annual One-Day Anesthesia Symposium"** — Location: Christian Hospital Northeast, St. Louis. Contact: Christian Hospital Anesthesia Department, 113 Dunn Road, St. Louis, MO 63110. 314/355-2300, ext. 5022.

25 **Nutrition Concerns for Women: A Symposium for Health Professionals** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

25 **"11th Annual Symposium on Medical and Surgical Treatment of Arthritis"** — Location: Sheraton Inn, Springfield, MO. Contact: James E. Thompson, Jr., Executive Director, Greene County Medical Society, 1200 E. Woodhurst D-200, Springfield, MO 65804. 417/887-1017.

25-27 **Missouri Thoracic Society Ozark Chest Conference VII: Infectious Disease and Asthma** — Location: Tan-Tar-A Resort Hotel, Lake Ozark, MO. Contact: Sheldon R. Braun, M.D., University of Missouri Hospital and Clinics, Room MA 419, Division of Pulmonary and Critical Care Medicine, Columbia, MO 65212. 314/882-2991. May also contact the American Lung Association of Eastern Missouri (St. Louis) or Western Missouri (Kansas City).

29-30 **Cancer and Aging** — Location: Clarion Hotel, St. Louis. Contact: Cheryl Mason, Symposium Secretary, VA Medical Center, GRECC (111G-JB), St. Louis, MO 63125. 314/894-4659.

October

3-4 **Infectious Disease Update 1987** — Location: Tan-Tar-A, Osage Beach, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

6 **"Application of Color For Doppler Imaging"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd., St. Louis, MO 63110. 314/362-7130.

8 **"Directions in Cancer Control"** —Location: Holiday Inn Executive Center, Columbia, MO. Contact: Marilyn Lake, Bureau of Cancer Epidemiology and Control, P.O. Box 1268, Columbia, MO 65205. 314/875-2264.

9-10 **Allergy, Immunology and Rheumatology: Review and Update** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

9-10 **30th Annual Physician Alumni Weekend** — Location: UMC School of Medicine, MA217 CME Auditorium, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

15-25 **Allergy Abroad** — Locations: Stockholm, Copenhagen, London. Contact: Loretta Giacoletto, Washington University School of Medicine, Box 8063, 660 S. Euclid, St. Louis, MO 63110. 314/362-6893.

20-21 **Medicine and Religion: Issues in the Eighties** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

22-23 **Chronic Obstructive Pulmonary Disease Update** — Location: Holiday Inn Executive Center, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

November

5-7 **Annual Fall Clinical Conference** — Location: Alameda Plaza Hotel, Kansas City, MO. Contact: Linda F. Smutz, Executive Director, Kansas City Southwest Clinical Society, 222 West Gregory, Kansas City, MO 64114. 816/523-3383.

10 **"Frontiers in Interventional Radiology"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

12-13 **"6th Annual Missouri Conference on Genetic Disorders"** — Location: Omni Hotel, St. Louis, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

13-15 **14th Annual Symposium: Anesthesia and the Geriatric Patient** — Location: The Marriott Pavilion Hotel, One Broadway, St. Louis, MO. Contact: Geriatric Symposium, Department of Anesthesiology, Box 8054, Washington University School of Medicine, 660 S. Euclid Avenue, St. Louis, MO 63110. 314/362-6973.

18-20 **Clinical Advances In Pediatrics: A Postgraduate Course** — Location: Children's Mercy Hospital, Kansas City, MO. Contact: Kurt Metzl, M.D., Course Director, Menorah Medical Center, 4949 Rockhill Road, Kansas City, MO 64110. 816/276-8825.

December

7-8 **33rd Annual Urology Seminar** — Location: Hyatt Regency Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

8 **"MRI of the Knee — 3,000 Cases"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

February 1988

10-12 **"8th National Conference on CAPD"** — Location: Westin Crown Center Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

April

29-30 **"Eating Disorders"** — Location: Hyatt Regency, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

LIBRIUM® Ⓒ
chlordiazepoxide HCl/Roche
5-mg, 10-mg, 25-mg capsules
Before prescribing, please consult complete product information, a summary of which follows:

Indications: Management of anxiety disorders; short-term relief of anxiety symptoms, acute alcohol withdrawal symptoms, preoperative apprehension and anxiety. Usually not required for anxiety or tension associated with stress of everyday life. Efficacy beyond four months not established by systematic clinical studies. Periodic reassessment of therapy recommended.

Contraindications: Known hypersensitivity to the drug.

Warnings: Warn patients that mental and/or physical abilities required for tasks such as driving or operating machinery may be impaired, as may be mental alertness in children, and that concomitant use with alcohol or CNS depressants may have an additive effect. Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage. Withdrawal symptoms (including convulsions) reported after abrupt cessation of extended use of excessive doses are similar to those seen with barbiturates. Milder symptoms reported infrequently when continuous therapy is abruptly ended. Avoid abrupt discontinuation; gradually taper dosage.

> ***Usage in Pregnancy*: Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically. Due to isolated reports of exacerbation, use with caution in patients with porphyria.

Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.

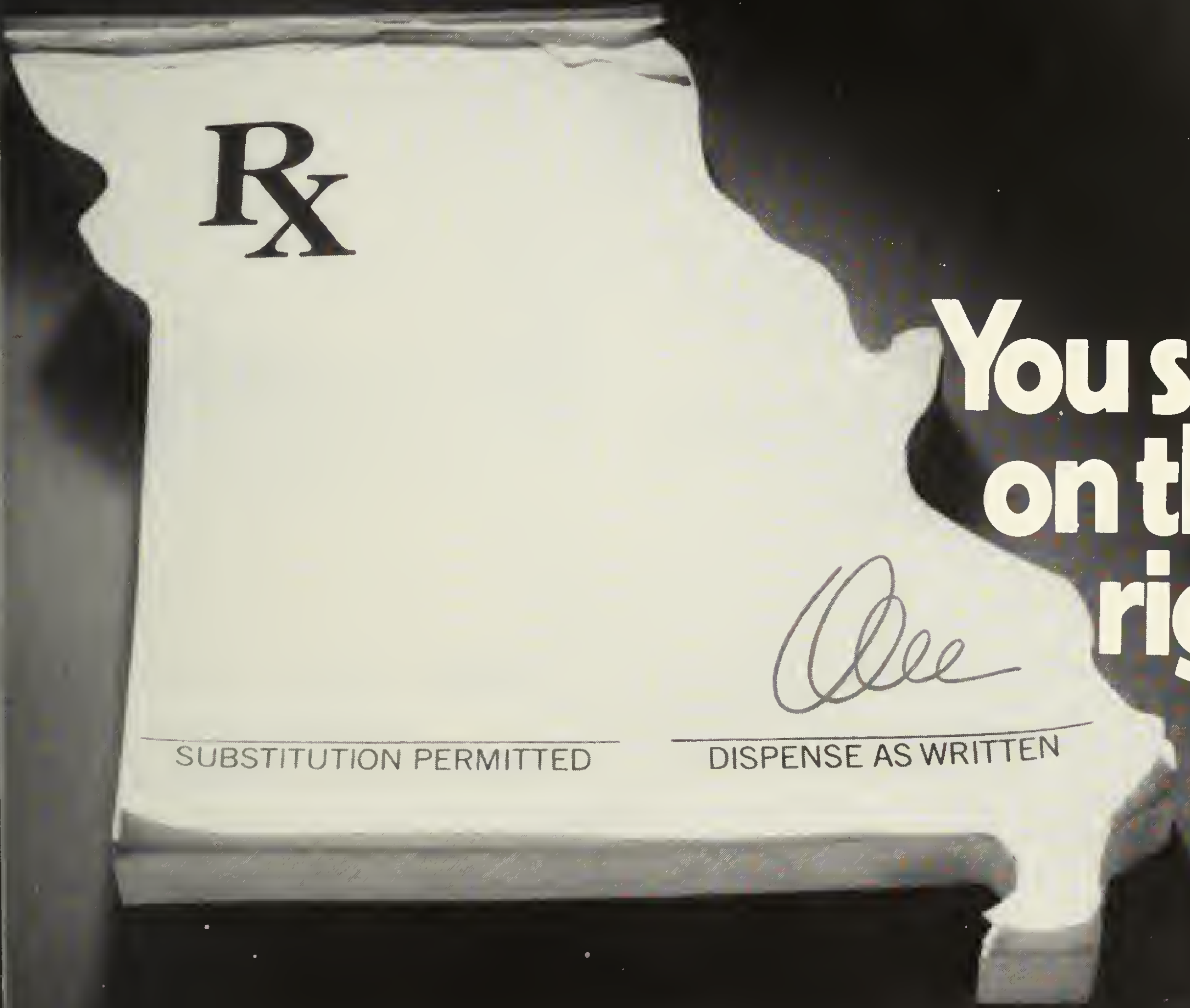
Usual Daily Dosage: Individualize for maximum beneficial effects. *Oral—Adults.* Mild and moderate anxiety disorders and symptoms, 5 or 10 mg *t.i.d.* or *q.i.d.*; severe states, 20 or 25 mg *t.i.d.* or *q.i.d.* *Geriatric patients:* 5 mg *b.i.d.* to *q.i.d.* (See Precautions.)

Supplied: Librium® (chlordiazepoxide HCl/Roche) *Capsules*, 5 mg, 10 mg and 25 mg—bottles of 100 and 500; Tel-E-Dose® packages of 100, available in boxes of 4 reverse-numbered cards of 25, and in boxes containing 10 strips of 10. Libritabs® (chlordiazepoxide/Roche) *Tablets*, 5 mg and 10 mg—bottles of 100 and 500; 25 mg—bottles of 100. With respect to clinical activity, capsules and tablets are indistinguishable.
P I. 0286

ROCHE®
Roche Products Inc.
Manati, Puerto Rico 00701

In Missouri, when you decide to prescribe Librium,

To protect your decision...


Rx
SUBSTITUTION PERMITTED
DISPENSE AS WRITTEN

You sign on the right.

Librium® 5-mg, 10-mg, 25-mg capsules
brand of
chlordiazepoxide HCl/Roche Ⓘⓥ

nobody does it better!

ROCHE®

Copyright © 1987 by Roche Products Inc. All rights reserved.

Please see adjacent page for a summary of product information.

PHYSICIANS HELPING PHYSICIANS

Risk Control Associates is more than just a service for physicians; we are an insurance company established, owned, and managed BY physicians. Consequently, RCA is committed to providing a strong, solid posture in claims defense and the highest quality coverage at competitive rates.

We know your needs through our own experience. Part of RCA answering your needs is the Risk Management Program. The principles and procedures of Risk Management have been carefully developed by physicians, clinic managers, lawyers, and insurance people experienced in the medical field.

For competitive quotations on your professional liability, call us, (417) 862-0650.

RISK CONTROL ASSOCIATES, INC.
MEDICAL LIABILITY INSURORS
1111 S. Glenstone Springfield, MO 65804
MISSOURI CHAPTER 383 COMPANY

THE NAVAL RESERVE NEEDS YOU!

The Naval Reserve is actively seeking Physicians due to the expanded requirements of the military Fleet Hospital Program. All medical specialities are needed, particularly Surgeons and Anesthesiologists.

Alter your Practice routine by serving your country as a Naval Officer.

We offer:
- Flexibility in drill schedule
- 4 days' pay for 2 days' work
- Educational loan repayment program
- Continuing Medical Education (CME)
- The opportunity to travel and do something special

Contact: (913) 764-3664

Career Opportunities in Emergency Medicine

Medical directorships and full-time staff positions are currently available *throughout Missouri.* Choose hospital emergency department or urgent care setting.

- **St. Louis and surrounding communities**
- **Excelsior Springs**
- **Jefferson City**

Guaranteed competitive rate of reimbursement, occurrence malpractice insurance coverage and CME allowance.

Part-time opportunities are also available.

For information on opportunities available throughout Missouri, contact:

Bill Salmo
Spectrum Emergency Care, Inc.
P.O. Box 27352
St. Louis, MO 63141
1-800-325-3982 314-878-2280

Classifieds

CLASSIFIED ADVERTISING INFORMATION

Rates: $15 per insertion for 50 words or less for members and $25 per insertion for 50 words or less for nonmembers, with an additional 25¢ per word in excess of 50.

Copy Deadline: Copy due by the first of the month prior to month of publication. Send to MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City 65102.

Word Count: Count as one word all single words, two initials of a name, each abbreviation, isolated numbers, groups of numbers, hyphenated words. Count file numbers as five words.

File Numbers — Advertisers using file numbers forbid disclosure of their identity. Written inquiries are forwarded to such advertisers. To assure prompt delivery when replying to an advertisement with a Journal file number, address letters as follows: File (insert number), c/o Missouri State Medical Association, P.O. Box 1028, Jefferson City, Mo. 65102.

All advertisements are subject to approval by the Editorial Board prior to acceptance.

Physicians Wanted

Emergency Medicine: Our 264-bed regional medical center is seeking an emergency physician who is preferably board certified/prepared. We offer the chance to practice in a newly-built Level II trauma center and remodeled ED department with 12,000 patient visits/year. Highly competitive salary and benefits package greater than 100k. Cape Girardeau, university city of 40,000, is the largest center for health care, retail trade, cultural activities, and entertainment between St. Louis and Memphis. Excellent school systems and superb recreational activities are available. Send CV to David Trantham, M.D., FACEP, 3201 Lakewood, Cape Girardeau, MO 63701; or call 314/651-6110.

Healthline Physician Services, an affiliate of St. Louis University Medical Center, has part-time and full-time opportunities available for physicians in Emergency Department, Clinic, and Locum Tenens work. We are presently recruiting for emergency departments in St. Louis city and metropolitan area. Excellent compensation, flexible schedules, administrative opportunities and benefits, no "on-call" responsibilities and a challenging medical environment. If you are just starting out, looking for a career change, or want to supplement your income from another source please contact: Barry Trautman, Healthline Physician Services, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Family physicians with 3-10 years of private practice experience wanted to join the professional staff of two Kansas City area primary care offices. Candidates should have an exemplary record in clinical practice and be self-motivated to work in expansion-oriented practices. Please call Health Resources, Ltd., 816/587-0920.

Urologist — VA Medical Center, Lincoln, Nebraska. Seeking board certified or board eligible urologist for progressive affiliated 180-bed Medical Center. Center is affiliated with University of Nebraska for urology residency program. Salary and bonus pay commensurate with training and experience. Licensure any state. Must meet English proficiency requirement. Allowable moving expenses payable. Write or call: Chief, Surgical Service, VA Medical Center, 600 South 70th Street, Lincoln, NE 68510. 402/489-3802. Equal Opportunity Employer.

Internist BC/BE with or without subspecialty to join five-physician single specialty group practice in S.W. Missouri serving a population of 1,000,000+. Excellent opportunity with competitive salary guaranteed plus incentive bonus. Malpractice and excellent benefits paid; opportunity for ownership. Pleasant recreational environment in the Ozarks. Please call or mail CV to Administrator, The Diagnostic Clinic, 3443 South National, Springfield, MO 65807. 417/883-3443.

Pediatrician, Family Practice, OB/GYN, General Internist & ENT — needed for two-hospital, historic river town of 20,000. Drawing area of approximately 60,000 with new 19,000 acre recreational lake. Unlimited potential. Contact: Carol Neil, Physician Recruitment, 623 Broadway, Hannibal, MO 63401 or call 314/221-3107.

Primary Care Physicians. The John J. Pershing VA Medical Center is seeking physicians with recent experience and/or training in primary care for medical coverage during non-duty hours. This will involve medical screening of applicants for hospital admission, providing appropriate treatment as may be needed to in-patients already admitted, and notifying on-call staff as required. Applicants must possess a current and unrestricted license to practice medicine. No malpractice insurance is needed as physicians will be covered by Federal Torts Act. Good benefits such as retirement plan, low cost health/life insurance, and excellent vacation/sick leave. Salary of $65-76,000 Per Annum Based on experience, training, and board certification. U.S. Citizens must be given first consideration, but physicians with permanent or immigrant visas may also be considered. Interested physicians should contact Chief of Staff, John J. Pershing VA Medical Center, 1500 N. Westwood Blvd., Poplar Bluff, MO 63901. An Equal Opportunity Employer. Telephone 314/686-4151, Ext. 201.

Anesthesiologist — Second anesthesiologist needed to complete a team providing excellent anesthesia services to our 194-bed medical center. We offer the opportunity to practice in a completely new and modern OR department currently providing anesthesia in Urological, General Surgical, Thoracic, Vascular, Gyn, ENT, Ophthalmologic and Orthopaedic cases. Sikeston is a city of 18,000 population, located mid-way between Memphis and St. Louis, with excellent schools and housing. Send CV to John R. Mobley, MISSOURI DELTA MEDICAL CENTER, 1008 N. Main, Sikeston, MO 63801-5099, or call 314/471-1600.

Medical Consultants: Physicians needed to work under contract for Disability Determination Services, State of Missouri. The position involves review of medical evidence in Social Security disability claims. Work performed at state offices during normal working hours. No patient care involved. Specialties needed: internal medicine, psychiatry, and family practice. Openings in St. Louis and Cape Girardeau. $42.00 per hour. Contact Neil Scully, Disability Determinations, 2401 E. McCarty, Jefferson City, Missouri 65101, 314/751-2890.

One Psychiatrist — needed to complement a team of dynamic psychiatrists and general physicians. Located 65 miles south of St. Louis on Highway 67, our hospital has 318 beds. We are looking for Board Certified or Eligible specialists. Remuneration will range from $67,000 up, depending on years of experience, Board Certification and optional on-call days. Fringe benefits come to an additional 35% of the salary which includes vacation time, sick time, CME allowance,

Physicians Wanted

health insurance and life insurance. For detailed information, please write to: Adolph J. Herath, M.D., Medical Director, Farmington State Hospital, Farmington, MO 63640 or call 314/756-6792, extension 347.

Emergency Medicine in IL and MO — Full and part-time positions available in emergency departments and clinics for qualified physicians seeking lucrative employment opportunities. Outstanding remuneration and comprehensive malpractice insurance provided. For further information contact: Deborah Bergun, staffing specialist. National Emergency Services, Inc., 255 Executive Dr., Suite 104, Plainview, NY 11803 or call 1-800-645-4848 or 516/349-0100.

Housestaff physician needed immediately. Christian Hospital, a 728-bed acute care facility located in suburban north St. Louis County, is seeking an ABIM-certified or eligible physician with a good background in Intensive Care Medicine to provide medical coverage for our acute Medical Care Unit and Progressive Care Unit. The physician must be proficient in placement of central lines, tracheal intubation, and all aspects of advanced life support. Also, good understanding of hemodynamics required. Christian Hospital offers an excellent salary and benefit package, including payment of professional dues, continuing education, relocation assistance and malpractice insurance. To apply, send your curriculum vitae in confidence to or call collect: Dr. Lesley Hanson, Christian Hospital Northeast/Northwest, 11133 Dunn Road, St. Louis, MO 63136. 314/355-2300. E.O.E. M/F/H.

Critical Care Physician needed immediately and in July of 1988. Christian Hospital, a 728-bed acute care facility located in suburban north St. Louis County, is seeking a Critical Care physician to staff its expanding Intensive Care Units. The ideal candidate should be Board Certified in Internal Medicine and Board Eligible in CCM, Cardiology or Pulmonary Medicine. We treat over 1600 patients per year in our I.C.U., including patients from our open heart surgery area. Christian Hospital offers an excellent salary and benefit package, including payment of professional dues, continuing education, relocation assistance and malpractice insurance. To apply, send your curriculum vitae in confidence to or call collect: Daniel W. Brewer, Corporate Manager of Executive Employment, Christian Hospital Northeast/Northwest, 11133 Dunn Road, St. Louis, MO 63136. 314/355-2300, ext. 5543. E.O.E. M/F/H.

Emergency Room Physician. Christian Hospital, a progressive 728-bed acute care facility, is seeking two (2) full-time emergency room physicians to join our emergency department. Our emergency department sees over 65,000 cases per year and is the trauma center for the North St. Louis County. The ideal candidate will be well-trained in emergency medicine and possess 1-2 years emergency department experience. We offer an excellent salary which is complemented by an outstanding benefit package. If this challenging opportunity is of interest to you, please apply in confidence to or call collect: Daniel W. Brewer, Corporate Manager of Executive Employment, Christian Hospital Northeast/Northwest, 11133 Dunn Road, St. Louis, MO 63136. 314/355-2300, ext 5543. E.O.E. M/F/H.

Full-Time Private Practice Opportunities from Healthline Physician Services, an affiliate of St. Louis University Medical Center, for the following specialties: Board Eligible or Board Certified Internal Medicine, and Board Certified Family Practice, Pediatrics and OB-GYN. Positions include income guarantee and no capital investment. For more information contact: Barry Trautman, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Family Physician Needed — Immediate need for BC/BE family physician to join 2 established family physicians in private practice in N.W. Iowa community of 5,000. Modern clinic across the street from JCAH hospital. Excellent salary and fringe benefits with partnership opportunity. Locum tenens opportunity available also. Call collect 712/324-2511 or contact Sheldon Family Practice Associates, 206 N. 7th Ave., Sheldon, Iowa 51201.

Real Estate

St. Louis, Missouri South County area. Spacious 3 bedrooms, 2½ baths, 2 fireplaces, 2-car garage, near Hwy. 270, 55 and 44. 1 mile from St. Anthony's Hospital. Nonsmokers, no pets, references. 2-year lease at $1800 per month. Call 314/849-4990 or 314/849-0005. Ask for Pat.

Practice Wanted

Board certified psychiatrist wants to buy a psychiatric practice in St. Louis Metropolitan area. Please reply c/o Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102, File #10.

Practices for Sale

Private Practice Opportunities: Family Practice and Internal Medicine, no cash outlay, attractive salary, excellent incentive compensation, liberal benefits including malpractice. Prospective for OB/GYN, Pediatrics, Psychiatry. Send C.V. to Don Hoit, Farris & Associates, Inc., 16216 Baxter Road, Suite 200, Chesterfield, MO 63017 (314) 532-4880.

Rheumatology practice for sale. — St. Louis. In practice 33 years. Retiring. Purchase price payable over 3 years. Will introduce. Letters of inquiry with CV to File #1, c/o Missouri Medicine, 113 Madison, P.O. Box 1028, Jefferson City, MO 65102.

General ophthalmological practice for sale. Area — Liberty, MO near two modern hospitals and a college. Established medical/surgical practice. Liberal terms are negotiable. Please call: Michael E. Castillo, M.D., 816/781-9120 or 816/587-8075.

Positions Wanted

Position wanted. Board Certified Cardiologist (internist) Invasive — Non Invasive, Missouri licensed, wishes to join group, hospital, industry, company, etc. Reply to Box No. 8, c/o MSMA, P.O. Box 1028, Jefferson City, MO 65102.

Investment

Investment. Limited Partnership Medical Practice (all specialties and general) Equipment and building, Mid-town St. Louis $100,000/share. Send letters of interest to P.O. Box 6302, St. Louis, MO 63106.

CME Cruise

1988 CME Cruise/Conference on Medicolegal Issues & Risk Management — Caribbean, Mexico, Alaska, China/Orient, Europe, New England/Canada, Trans Panama Canal, South Pacific. Approved for 24-28 CME Cat. 1 Credits (AMA/PRA) and AAFP prescribed credits. Distinguished lecturers. **Excellent group rates on finest ships.** Registration limited. Pre-scheduled in compliance with IRS requirements. Information: International Conferences, 189 Lodge Ave., Huntington Station, N.Y. 11746 516/549-0869.

See the difference in the first week[1]

- **Sleep improvement in 74% of patients after first h.s. dose[2]**
- **Significantly faster relief–62% of total four-week improvement evident in first week versus 44% with amitriptyline alone[1]**
- **Dramatic first-week reduction in somatic complaints[2]**

% Reduction in Somatic Symptoms[2]

Vomiting	Nausea	Headache	Anorexia	Constipation
Reduced 90%	Reduced 86%	Reduced 72%	Reduced 62%	Reduced 60%

- **Only ⅓ the dropout rate due to side effects of amitriptyline alone, although the incidence of side effects is similar[1]**

Caution patients about the combined effects of Limbitrol with alcohol or other CNS depressants and about activities requiring complete mental alertness, such as operating machinery or driving a car. In general, limit dosage to the lowest effective amount in elderly patients.

Protect your decision.
Write "Do not substitute."

In moderate depression and anxiety

Limbitrol®

Each tablet contains 5 mg chlordiazepoxide and 12.5 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

Limbitrol® DS

Each tablet contains 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

Copyright © 1987 by Roche Products Inc. All rights reserved.

References: 1. Feighner JP, *et al* *Psychopharmacology 61* 217-225, Mar 22, 1979 **2.** Data on file, Hoffmann-La Roche Inc , Nutley, NJ

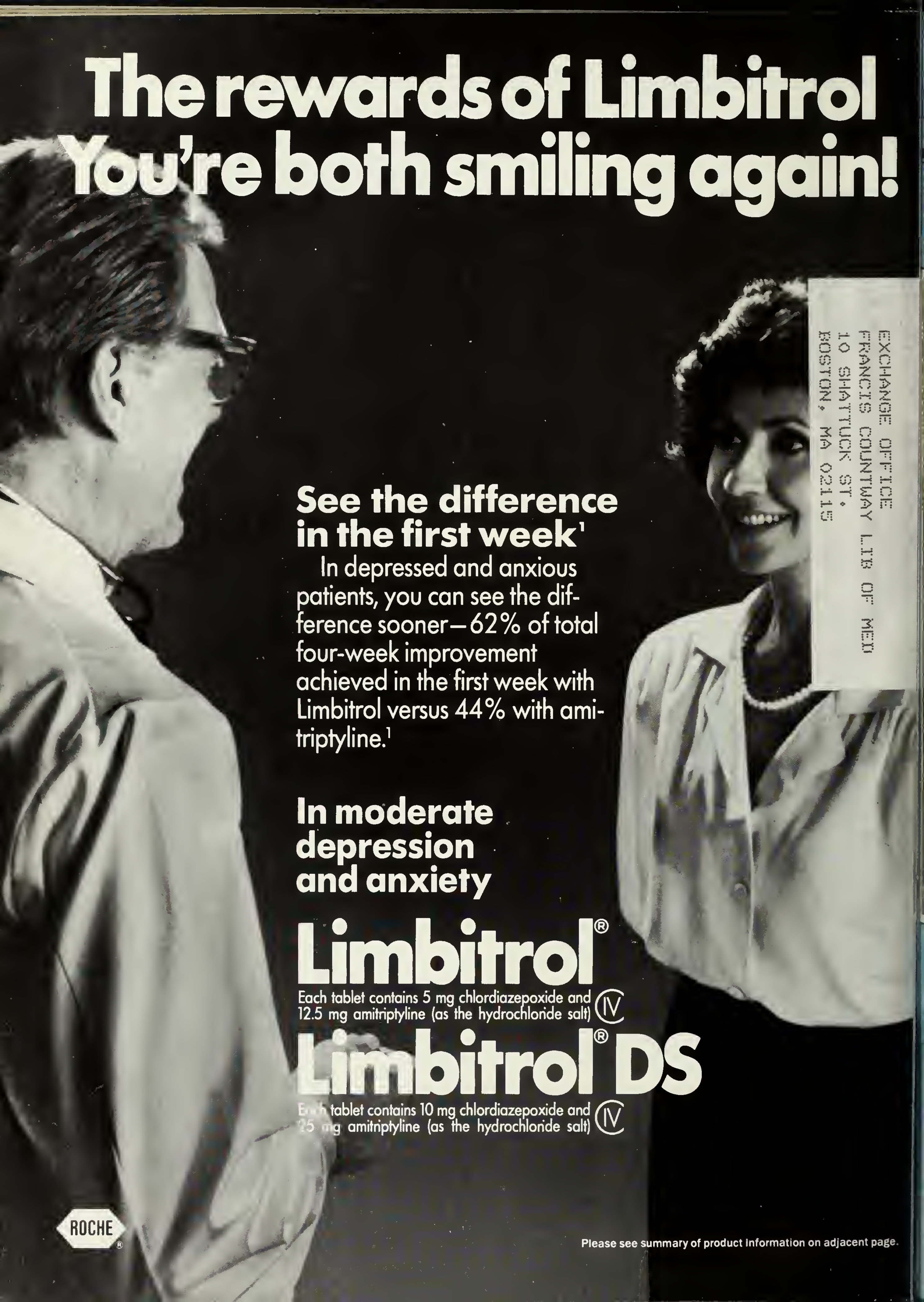
Limbitrol® Ⓒ IV
Tranquilizer—Antidepressant
Before prescribing, please consult complete product information, a summary of which follows:
Indications: Relief of moderate to severe depression associated with moderate to severe anxiety
Contraindications: Known hypersensitivity to benzodiazepines or tricyclic antidepressants Do not use with monoamine oxidase (MAO) inhibitors or within 14 days following discontinuation of MAO inhibitors since hyperpyretic crises, severe convulsions and deaths have occurred with concomitant use, then initiate cautiously, gradually increasing dosage until optimal response is achieved. Contraindicated during acute recovery phase following myocardial infarction
Warnings: Use with great care in patients with history of urinary retention or angle-closure glaucoma Severe constipation may occur in patients taking tricyclic antidepressants and anticholinergic-type drugs Closely supervise cardiovascular patients (Arrhythmias, sinus tachycardia and prolongation of conduction time reported with use of tricyclic antidepressants, especially high doses Myocardial infarction and stroke reported with use of this class of drugs) Caution patients about possible combined effects with alcohol and other CNS depressants and against hazardous occupations requiring complete mental alertness (e *g* , operating machinery, driving)

***Usage in Pregnancy*: Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Since physical and psychological dependence to chlordiazepoxide have been reported rarely, use caution in administering Limbitrol to addiction-prone individuals or those who might increase dosage, withdrawal symptoms following discontinuation of either component alone have been reported (nausea, headache and malaise for amitriptyline, symptoms [including convulsions] similar to those of barbiturate withdrawal for chlordiazepoxide)
Precautions: Use with caution in patients with a history of seizures, in hyperthyroid patients or those on thyroid medication, and in patients with impaired renal or hepatic function Because of the possibility of suicide in depressed patients, do not permit easy access to large quantities in these patients Periodic liver function tests and blood counts are recommended during prolonged treatment Amitriptyline component may block action of guanethidine or similar antihypertensives When tricyclic antidepressants are used concomitantly with cimetidine (Tagamet), clinically significant effects have been reported involving delayed elimination and increasing steady state concentrations of the tricyclic drugs Concomitant use of Limbitrol with other psychotropic drugs has not been evaluated, sedative effects may be additive Discontinue several days before surgery Limit concomitant administration of ECT to essential treatment See Warnings for precautions about pregnancy Limbitrol should not be taken during the nursing period Not recommended in children under 12 In the elderly and debilitated, limit to smallest effective dosage to preclude ataxia, oversedation, confusion or anticholinergic effects
Adverse Reactions: Most frequently reported are those associated with either component alone drowsiness, dry mouth, constipation, blurred vision, dizziness and bloating Less frequently occurring reactions include vivid dreams, impotence, tremor, confusion and nasal congestion Many depressive symptoms including anorexia, fatigue, weakness, restlessness and lethargy have been reported as side effects of both Limbitrol and amitriptyline Granulocytopenia, jaundice and hepatic dysfunction have been observed rarely
The following list includes adverse reactions not reported with Limbitrol but requiring consideration because they have been reported with one or both components or closely related drugs
Cardiovascular Hypotension, hypertension, tachycardia, palpitations, myocardial infarction, arrhythmias, heart block, stroke
Psychiatric Euphoria, apprehension, poor concentration, delusions, hallucinations, hypomania and increased or decreased libido
Neurologic Incoordination, ataxia, numbness, tingling and paresthesias of the extremities, extrapyramidal symptoms, syncope, changes in EEG patterns
Anticholinergic Disturbance of accommodation, paralytic ileus, urinary retention, dilatation of urinary tract
Allergic Skin rash, urticaria, photosensitization, edema of face and tongue, pruritus
Hematologic Bone marrow depression including agranulocytosis, eosinophilia, purpura, thrombocytopenia
Gastrointestinal Nausea, epigastric distress, vomiting, anorexia, stomatitis, peculiar taste, diarrhea, black tongue
Endocrine Testicular swelling and gynecomastia in the male, breast enlargement, galactorrhea and minor menstrual irregularities in the female, elevation and lowering of blood sugar levels, and syndrome of inappropriate ADH (antidiuretic hormone) secretion
Other Headache, weight gain or loss, increased perspiration, urinary frequency mydriasis, jaundice, alopecia, parotid swelling
Overdosage: Immediately hospitalize patient suspected of having taken an overdose Treatment is symptomatic and supportive I V administration of 1 to 3 mg physostigmine salicylate has been reported to reverse the symptoms of amitriptyline poisoning See complete product information for manifestation and treatment
Dosage: Individualize according to symptom severity and patient response Reduce to smallest effective dosage when satisfactory response is obtained Larger portion of daily dose may be taken at bedtime Single *h s* dose may suffice for some patients Lower dosages are recommended for the elderly Limbitrol DS (double strength) Tablets, initial dosage of three or four tablets daily in divided doses, increased up to six tablets or decreased to two tablets daily as required Limbitrol Tablets, initial dosage of three or four tablets daily in divided doses, for patients who do not tolerate higher doses
How Supplied: *Double strength (DS) Tablets*, white, film-coated, each containing 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt), and *Tablets*, blue, film-coated, each containing 5 mg chlordiazepoxide and 12 5 mg amitriptyline (as the hydrochloride salt) Available in bottles of 100 and 500, Tel-E-Dose® packages of 100, Prescription Paks of 50

ROCHE®
ROCHE PRODUCTS INC
Manati, Puerto Rico 00701

P I 0585



The rewards of Limbitrol You're both smiling again!

EXCHANGE OFFICE
FRANCIS COUNTWAY LIB OF MED
10 SHATTUCK ST.
BOSTON, MA 02115

See the difference in the first week[1]

In depressed and anxious patients, you can see the difference sooner—62% of total four-week improvement achieved in the first week with Limbitrol versus 44% with amitriptyline.[1]

In moderate depression and anxiety

Limbitrol®

Each tablet contains 5 mg chlordiazepoxide and 12.5 mg amitriptyline (as the hydrochloride salt) Ⓘⓥ

Limbitrol® DS

Each tablet contains 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt) Ⓘⓥ

ROCHE®

Please see summary of product information on adjacent page.

Missouri Medicine

Journal of the Missouri State Medical Association

October 1987

[redacted]

In this issue:

- Eagle-Barrett Syndrome
- Extracardiac Malignancies Producing Tamponade
- Comparison of Non-Invasive Carotid Tests with Angiography in Assessing Carotid Stenosis

THE FRANCIS A. COUNTWAY LIBRARY OF MEDICINE
BOSTON, MA
OCT 19 1987

HAD A SUIT
PRESSED
LATELY?

Professional liability insurance is designed to protect you in the event of an allegation of medical malpractice. If you have ever been sued, you realize the importance of the claims staff of your insurance carrier.

MOMEDICO employs a staff of highly trained professionals to help you deal with claims and lawsuits. Our record speaks for itself—of all claims which have been handled to conclusion, 81.4% have been closed without payment of indemnity. We care about your professional reputation. We will not compromise a claim simply to save defense dollars.

Choose the carrier that puts your reputation above frivolous remuneration.

MOMEDICO

10795 Watson Road, St. Louis, MO 63127
314-965-1003 or toll free 800-392-8039

Jefferson City Office, 113 Madison
Jefferson City, MO 65101, 314-634-8090

Kansas City Office, 9229 Ward Parkway, Suite 290
Kansas City, MO 64114, 816-363-6161

Founded by the Missouri State Medical Association

Contents

ON CALL

Missouri State Medical Association
314/636-5151

American Medical Association
312/645-5000

MSMA Physician Rehabilitation Hotline
816/531-1258

MOMEDICO
1-800-392-8039

Dobson Insurance Group
1-800-892-3432

MSMA Retirement Plan/ E. F. Hutton
(Call collect) 314/725-9690

Forrest T. Jones
1-800-892-7272

Fred S. James
Kansas City 816/842-6670
St. Louis 314/863-7777

Health Care Financing Administration
816/374-5233

Intrav
314/727-0500

Medicaid Provider Relations
1-800-392-0938

Medicare Provider Relations
1-800-392-3070

Medicare Part B Blue Cross Blue Shield
Kansas City
1-800-654-9629

Missouri Department of Health
314/751-6400

Missouri Department of Social Services
314/751-2086

Missouri Patient Care Review Foundation
(Preadmission) 1-800-392-8060
(General Info) 1-800-392-1312

Missouri State Bureau of Narcotics and Dangerous Drugs
314/751-8042

Missouri State Board of Registration of the Healing Arts
314/751-2334

Cover

"Ozark House," 14" X 18" oil painting completed in October 1986 by James F. O'Malley, M.D. of *Leawood, KS.* Dr. O'Malley is a urologist in Kansas City and has been painting for more than 40 years. The "Ozark House" is located in Eureka Springs, AR.

Special Feature Article

639 **Controversy: HMO's in Missouri**
Valerie A. Peters, Editorial Assistant

Scientific Articles

646 **Eagle-Barrett Syndrome**
Margaret A. Alspaugh, Ph.D. and Clive Levine, M.D.
Columbia, Missouri

650 **Extracardiac Malignancies Producing Tamponade**
Maria J. Brazil, M.D., John P. Merjavy, M.D., and John E. Codd, M.D.
St. Louis, Missouri

653 **Comparison of Non-Invasive Carotid Tests with Angiography in Assessing Carotid Stenosis**
H. Richard McFarland, M.D. and Joe A. Pinkerton, M.D.
Kansas City, Missouri

Departments

THE FRA
LIBRAR
BOSTO
OCT 1 9 1987

627 Progress Notes
633 Editor's Desk
635 Auxiliary Message
637 Practice Management
656 Index to Advertisers
656 Information for Contributors
657 Medical School News
661 Physician's Recognition Award
663 Continuing Medical Education
667 New Members
669 In Memoriam
673 Classifieds

Special Information

672 HIV Test Sites

In 1957, Sputnik became the first man-made earth satellite, the New York Giants moved to San Francisco and United Missouri opened its Investment Counsel Department.

United Missouri Bank announced Investment Counsel Services in '57. It didn't make national headlines. It did make a difference.

Since then, United Missouri has helped thousands of people build solid investment portfolios.

United Missouri has done it by building a large department of investment experts. These experts have offered individual attention to each customer.

They've carefully analyzed each customer's needs. They've constructed portfolios unique to each customer. And, they've offered all customers the choice to make their own decisions, or to have the bank manage their portfolios on a discretionary basis.

As a result, each United Missouri customer has witnessed consistent growth through years of economic change.

Today, United Missouri's Investment Counsel Department still makes a difference. It can make a difference for you. For your investment portfolio, call United Missouri's Stuart Murdock at 556-7340. And, pick the proven performer.

UNITED MISSOURI BANKS
Members FDIC

P.O. Box 419226, Kansas City, Missouri 64141-6226

Missouri Medicine

Vol. 84, No. 10 *Journal of the Missouri State Medical Association* October 1987

Editor
Jordan W. Burkey, M.D.
Associate Editor
Donald G. Sessions, M.D.
Managing Editor
Susan Flanigan Gold
Business Manager
Royal O. Cooper
Editorial Assistant
Valerie Peters

EDITORIAL BOARD

Anesthesiology
George P. Hoech, Jr., M.D.
Cardiovascular Surgery
Jack J. Curtis, M.D.
Dermatology
Philip C. Anderson, M.D.
Ernest Lorenc, M.D.
Emergency Medicine
David M. Trantham, M.D.
Family Practice
William D. Bradshaw, M.D.
Carl R. Kruse, M.D.
Kirby L. Turner, M.D.
Gastroenterology
Jay P. Marshall, II, M.D.
Internal Medicine
John S. Daniels, M.D.
Stephen Hamburger, M.D.
Robert K. Skillman, M.D.
Neonatology
Elizabeth J. James, M.D.
Neurosurgery
Keith Rich, M.D.
Obstetrics and Gynecology
Thomas M. Mier, M.D.
Oncology
Michael C. Perry, M.D.
Ophthalmology
John C. Hagan, III, M.D.
F. Thomas Ott, M.D.
Orthopedics
Raymond A. Ritter, Jr., M.D.
Pathology
Eugene F. Tucker, M.D.
Pediatrics
R. Don Blim, M.D.
Psychiatry
William F. Clary, M.D.
Radiation Therapy
MacDonald B. Logie, M.D.
Radiology
Frederick M. Brandon, M.D.
Donald R. Germann, M.D.
General Surgery
Richard O. Craig, M.D.
Donald Silver, M.D.
Urology
Gilbert Ross, Jr., M.D.

PUBLICATIONS COMMITTEE

Chairman
Jordan W. Burkey, M.D.
Vice-Chairman
Donald G. Sessions, M.D.
Members
Donald E. Menchetti, M.D.
Jerry W. Templer, M.D.
John K. Layle, M.D.
Earl R. Schultz, M.D.

MSMA STAFF

Executive Vice President
Royal O. Cooper
Executive Director
C. C. Swarens
Director of Scientific Affairs
Ron Ellison
Field Secretary
Don Wilson
Director of Communications
R. Kay Dinolfo

MSMA Officers

President	Larry G. Piepergerdes, M.D., *Kansas City*
President-Elect	T. J. Cooper, M.D., *St. Louis*
Secretary	Berry Ivy, M.D., *Springfield*
Treasurer	Jay Meyer, M.D., *St. Louis*
Immediate Past President	H. Peter Ekern, M.D., *Mexico*
Vice President	William J. Medlicott, M.D., *Kansas City*
Vice President	William C. Allen, M.D., *Columbia*
Vice President	John P. Roberts, M.D., *St. Louis*
Speaker	Arlen D. Winsky, M.D., *Springfield*
Vice-Speaker	Jo-Ellyn M. Ryall, M.D., *St. Louis*

Councilors

Marvin A. Singleton, M.D., *Joplin*, Chairman
Gary A. Dyer, M.D., *St. Joseph*, Vice Chairman
Robert V. Tompson, M.D., *Moberly*
William H. Huffaker, M.D., *St. Louis*
J. Otto Lottes, M.D., *St. Louis*
Arturo Montes, M.D., *St. Louis*
Frederick D. Peterson, M.D., *St. Louis*
David Wilkinson, M.D., *St. Louis*
Carol F. Williams, M.D., *St. Louis*
J. Michael Conoyer, M.D., *St. Peters*
Alan L. Braun, M.D., *Jefferson City*
Kenneth L. Rall, M.D., *Columbia*
A. J. Campbell, M.D., *Sedalia*
Raymond J. Caffrey, M.D., *Independence*
Robert T. Gibbons, M.D., *Prairie Village, KS*
Frederick W. Hahn, M.D., *Kansas City*
Dorothy D. Reister, M.D., *Shawnee Mission, KS*
Francis M. Corry, M.D., *Springfield*
David O. Barbe, M.D., *Mountain Grove*
Melvin C. Kasten, M.D., *Cape Girardeau*
Dean Blakeley, *Columbia*
Charles W. Barbee, M.D., *Columbia*
Gerry A. Love, M.D., *Kansas City*

Vice Councilors

Stephen Vilmer, M.D., *Shawnee Mission, KS*
Carl R. Kruse, M.D., *Palmyra*
Frank Ostapowicz, M.D., *Clayton*
Sammy L. Farrell, M.D., *Washington*
Jerry Murrell, M.D., *Columbia*
Jerry Meyer, M.D., *Concordia*
Mark W. Martin, M.D., *Lee's Summit*
David W. Hall, M.D., *Rogersville*
Thomas R. Stubbs, M.D., *West Plains*
William C. Shell, M.D., *Sikeston*
Evan Saunders, *St. Louis*
William Dorzab, M.D., *Kansas City*
Victoria Martin, M.D., *Shawnee Mission, KS*

AMA Delegates

Francis X. Lieb, M.D., *St. Louis*
Hugh E. Stephenson, Jr., M.D., *Columbia*
George M. Bohigian, M.D., *St. Louis*
Melvin C. Kasten, M.D., *Cape Girardeau*
Larry G. Piepergerdes, M.D., *Kansas City*
Vernon H. Balster, M.D., *St. Louis*
Walter A. German, M.D., *Springfield*

Printing Office: The Ovid Bell Press, Inc., Fulton 65251

Missouri Medicine (ISSN 0026-6620) is published monthly by the Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102.

Subscription rates: $15 per year. Interns and Residents, $7.50 per year

Second class postage paid at Jefferson City, Missouri and at additional mailing offices.

Postmaster: Send address changes to Missouri State Medical Association, c/o Membership Department, P.O. Box 1028, Jefferson City, MO 65102.

The articles published in *Missouri Medicine* represent the opinions of the authors, and do not necessarily reflect the official policy of the Missouri State Medical Association.

Copyright © 1987 by the Missouri State Medical Association. All rights reserved. Publication number 355380.

You've worked long and hard for that license to practice medicine. With malpractice suits becoming more frequent, why risk your career's reputation with a company not totally dedicated to your total protection? Why risk your career's reputation with a "for profit" company who may leave you with an undeserved malpractice mark on your record?

At MDA, we have a reputation for fighting all unmerited claims. We stand behind our policyholders . . . all the way. MDA offers protection at affordable prices. Actually, our sole purpose is to provide protection for our physician insureds, on a not-for-profit basis.

Why not call us and let us tell you more about our protection against malpractice suits. After all . . . shouldn't you be protected by a company as concerned about your good reputation as you are?

Call toll free 1-800-492-7212

Physician . . . For Your Career's Good Health!

Medical Defense Associates

P.O. Box 3817
Springfield, MO 65808

Represented by Wedgeworth and Co. Ltd.
dba Missouri Malpractice Managers

MSMA Progress Notes

Bohigian chairs CSA

George M. Bohigian, M.D., Associate Clinical Professor of Ophthalmology, Washington University School of Medicine, has been elected as the Chairman of the American Medical Association's Council on Scientific Affairs. This 12-member council advises the AMA on the aspects of biomedical research and helps formulate policy on scientific issues. Frequently Council reports are published in the *Journal of the American Medical Association*. ■

Amphetamine reminder

The Board of Healing Arts is reminding physicians of the potential for amphetamine abuse. Here are some rules implemented by the Board:

"Amphetamines and amphetamine-like drugs shall not be dispensed or prescribed for the treatment of exogenous obesity, except when alternative therapy has been ineffective or except in conformity with the following minimal requirements:

"• A complete history and physical examination of the patient shall be taken, including the taking of blood pressure, pulse, checking of the heart and lungs, weight, height and appropriate diagnostic tests. The history and examination shall be sufficient to determine if the patient has previously been drug dependent, to determine if the cause of the obesity is one which indicates the drugs to be inappropriate and to determine if there exist other contraindications to use of the drugs. All findings herein required shall be entered in the patient's record;

"• A diet for weight loss shall be prescribed and shall be recorded on the patient record;

"• Daily dosage shall not exceed that recommended in the manufacturer's prescribing information for the drug prescribed or dispensed";

In addition, not more than a 30-day supply of the drug may be dispensed or prescribed at each patient visit. Therapy may not be continued longer than 90 days for exogenous obesity. Other conditions, such as narcolepsy, are permitted extended therapy. Patients not losing weight while using amphetamines may not receive a refill. ■

Non-pharmacy dispensing

Here are some reminders from the State Board of Registration for the Healing Arts regarding non-pharmacy dispensing:

1. Remember that you are obligated to honor the patient's free choice in obtaining their medications. Provide the prescription and allow the patient to select their source for filling that prescription even though you may dispense the drug at your office.
2. You must directly supervise your office personnel who assist in dispensing drugs from your office. Never permit the dispensing of medication when you are absent from the office or clinic unless another physician licensed by the state is present to supervise the employees.
3. You must dispense medication in containers specified by federal law, rule or regulation unless the patient gives written consent for a different container. ■

Public health hotline

The Missouri Department of Health (DOH) now has a 24-hour public health emergency phone number — 314/751-4674. The hotline is answered by an answering service after hours and on weekends and holidays. Within 30 minutes, a DOH official will return your call. ■

Executive explains Board of Healing Arts funding, surplus

The Board of Healing Arts has disputed the contention by the State Auditor that the Board has an inappropriate surplus of funds.

The Auditor reported that the Board has a surplus of almost $1.5 million. The Board, which receives its funding from licensing and examination fees, responded that in order to carry out its duties, it has requested more than $500,000 in additional appropriations for next year. In addition, the Division of Professional Registration, of which the Board is part, is proceeding with plans to build a new office building. The Board's share of this project is slated to be more than $1 million.

"Considering this, you can see that (the Board) can do one or the other without raising fees, but not both," said Gary Clark, executive secretary.

Clark pointed out that the registration fee for Missouri physicians is $30, compared to a national average of $51.

To explain how the large surplus originated, Clark said a few years ago the state changed its renewal billing procedure which resulted in the Board's having two collection periods in one fiscal year. This generated a surplus of several hundred thousand dollars. The state also required the Board to charge the same fee for initial "reciprocity" licensure that is charged for license by examination. Since the cost to the Board for reciprocity licensing is much lower, it has received an "above cost" of about $250,000 annually.

The Board again plans to seek substantially increased funding in the coming Session of the General Assembly. Changes in statutes contained in bills adopted the past two years have expanded the responsibilities of the Board, Clark said, and more monies will be required. ■

PRO increases response time to pending denial

Effective September 1, 1987, physicians will have 10 days from the date of the pending denial letter to submit to the Missouri Patient Care Review Foundation (Missouri's PRO) additional information that may help justify the medical necessity for inpatient care.

According to PRO President William D. Bradshaw, M.D., the previous policy allowed physicians seven days' response time. This placed unrealistic pressures on physicians due to the tightening of the policy granting response time extensions combined with mail delivery difficulties.

Dr. Bradshaw hopes the 10-day period will result in fewer final denials.

"Avoiding unnecessary denials avoids PRO having to send a letter to the patient and the accompanying confusion and anxiety such letters may engender." ■

A Message from the PRO

William D. Bradshaw, M.D., President of the Missouri Patient Care Review Foundation, explains that Missouri's PRO policy is pro-education.

National attention has recently focused on the issue of peer review organizations (PROs) and their apparent overzealousness in the sanctioning of physicians. While the controversy has not reached the proportions in Missouri that it has in other states, Missouri physicians are understandably concerned about where their PRO, the Missouri Patient Care Review Foundation, stands in this critical area, particularly given its recent leadership change.

As the new President of the Foundation, I want to make absolutely clear the Foundation's philosophy and policy in working with physicians and hospitals throughout Missouri.

As a physician-sponsored organization, the Missouri PRO's first and foremost priority is to assure that Medicare patients in this state receive quality care, a goal synonymous with that of any physician who treats Medicare patients. And, this is what the Foundation has contracted with the Health Care Financing Administration (HCFA) to do.

Peer review organizations have been given broad powers to make medical determinations about the care provided by physicians and hospitals and to accomplish certain objectives and perform certain activities under their federal contract. These activities include proposed sanctions against physicians and hospitals. At the same time, PROs are mired in a myriad of frequently changing federal rules and regulations which are not fully comprehended by the typical physician.

This is hardly the stuff of which a trusting, professional relationship between PRO and physician may be made. Yet, the Foundation has endeavored with some success to maintain a peer review system that is fair, reasonable and consistent.

The Foundation will pursue educational approaches whenever possible to help correct what may be deficiencies or practice problems. It will consider recommending sanctions against physicians only as a last resort, *after* educational efforts have been exhausted. Equally important, this philosophy is shared not only by the Foundation Board and staff but, I believe, has been evolving into one of the cornerstones of HCFA's program.

This is not to ignore the inevitable pressures from the Office of the Inspector General and other organizations to increase sanction activity by PROs. Nor does it suggest for a moment that this Foundation will permit a physician who clearly is rendering substandard quality care to continue to practice that level of care in this state. But practicing physicians in this state have my assurance, and that of the Foundation Board, that the Missouri PRO will exercise its tremendous responsibilities with appropriate restraint and utmost concern for practicing physicians. ■

September 12 Council Highlights

The MSMA Council voted at its September 12 meeting to apply a non-member surcharge to every publication and service available for purchase. The vote affirmed a recommendation by the MSMA Public Affairs Commission.

In other business, the Council decided to make a manual on AIDS available to every member of the Association. There was debate, however, as to the form the manual should take. The Executive Committee was charged with making a final recommendation.

Workshops dealing with a number of topics were given Council approval. The various programs are scheduled through next spring and will be held in St. Louis and Kansas City.

Full, four-year C.M.E. accreditations were approved for Trinity Lutheran Hospital, Kansas City, and for Boone County Medical Society.

A resolution from the Cape Girardeau Area Medical Society was presented to the Council. The document expressed the society's feeling that the head of the Department of Mental Health should be a board-certified psychiatrist, and called for a legislative mandate to that effect. The resolution received a sympathetic hearing and was referred to the Executive Committee for refinement and transmittal to Governor Ashcroft.

The Third Councilor District delegation also presented a pair of resolutions from the St. Louis Metropolitan Medical Society. These resolutions dealt with required licensing for all child care facilities, and the elimination of all exemptions for childhood immunizations. The Council voted to refer the resolutions to the MSMA Legislative Affairs Committee for study.

President Larry G. Piepergerdes, M.D., appointed Drs. Frederick Hahn, Robert Gibbons, Raymond Caffrey, and Douglas Bogart, all of the Kansas City area, to the Committee on Arrangements for the 130th Annual Convention. The convention is scheduled for March 17-20, 1988, at the Hyatt Regency in Kansas City. Dr. Hahn will serve as chairman of the committee.

Jordan W. Burkey, M.D., Springfield, editor of *Missouri Medicine,* presented a report. Councilors approved his nomination of Keith Rich, M.D., St. Louis, to the Editorial Board. Dr. Rich's specialty is neurosurgery.

In other business, it was reported that the MSMA's nominees to the PRO board are William Shell, M.D., Sikeston, and Ronald Youmans, M.D., Kansas City.

The Council also heard a report from the Physician Rehabilitation Committee. Two recommendations, dealing with the makeup of the committee and the responsibilities of the board, were referred to the Executive Committee.

Hugh E. Stephenson, Jr., M.D., Columbia, and Richard V. Bradley, M.D., St. Louis, were given Council endorsement in their bids for seats on the AMA Council on Medical Education and the Council on Medical Services. Their nominations are subject to AMA Board of Trustees approval.

A proposal to raise the convention allowance for members of the AMA delegation was referred to the Budget and Finance Committee.

Other reports presented to and filed by the Council were from the Judicial Council, Missouri's PRO, the Auxiliary, MOMEDICO, the Legislative Affairs Committee, MMPAC, Dean Manuel Comas, M.D., of the St. Louis University School of Medicine, and consultant Douglas Hough, Ph.D., on strategic planning for the Association.

The Council's next regular meeting will be December 12 at the Capitol Plaza Hotel, Jefferson City. ■

MSMA schedules workshops

At the September 12 Council meeting, several dates were approved for workshops sponsored by MSMA. Mark your calendar now with these dates and be sure to look for more information in future issues of MISSOURI MEDICINE.

- How to run a more profitable practice — October 7, 1987 in St. Louis; October 8, 1987 in Kansas City.
- Third party reimbursement — December 1, 1987 in Kansas City; December 2, 1987 in St. Louis.
- How to get started in medical practice — December 3-4, 1987 in St. Louis.
- Better collections/patient flow — March 10, 1988 in St. Louis; March 11, 1988 in Kansas City.
- Third party reimbursement — May 3, 1988 in St. Louis; May 4, 1988 in Kansas City.

For more information call MSMA at 314/636-5151. ■

Murrell becomes councilor

Effective August 28, 1987, H. Jerry Murrell, M.D. became a Councilor for the Fifth District of the MSMA. Murrell has served as a vice councilor from the district for two years. He is a Columbia radiologist. He replaces Kenneth L. Rall, M.D., who resigned. ■

MMPAC "SuperPAC" Members — 1987

The following individuals are making an impact on state and national legislation. By becoming members of MSMA's "SuperPAC," their contributions and political visibility ensure that medicine's voice is heard in our state legislature and Congress.

Do you want to affect the legislative course medicine is taking? Call 314/636-5151 for details on how to join your colleagues listed here.

Donald A. Potts, M.D.
Independence

Marvin A. Singleton, M.D.
Joplin

Melvin C. Kasten, M.D.
Cape Girardeau

Mrs. Mary Kasten
Cape Girardeau

Frederick W. Hahn, Jr., M.D.
Kansas City

Mr. Royal O. Cooper
Jefferson City

Thomas J. Cooper, M.D.
St. Louis

Larry G. Piepergerdes, M.D.
Kansas City

Mrs. Margaret Piepergerdes
Kansas City

J. Michael Conoyer, M.D.
St. Peters

Robert L. McLauren, Jr., M.D.
Springfield

Garth S. Russell, M.D.
Columbia

William H. Huffaker, M.D.
St. Louis

Donald A. Fakhoury, M.D.
St. Louis

H. Peter Ekern, M.D.
Mexico

Francis X. Lieb, M.D.
St. Louis

Richard V. Bradley, M.D.
St. Louis

Allen L. Spitler, M.D.
Cape Girardeau

John G. Campbell, M.D.
Kansas City

John C. Hagan, III, M.D.
N. Kansas City

Charles W. Barbee, M.D.
Columbia

Mrs. Pattye Barbee
Columbia

M. Ted Moore, M.D.
Nevada

Mrs. Sandra G. Mitchell
Kansas City

James H. Lonergan, M.D.
Kansas City

R. Robert Hatlelid, M.D.
Joplin

Gerald F. Tuohy, M.D.
Kansas City

Keith W. Ashcraft, M.D.
Kansas City

David O. Barbe, M.D.
Mountain Grove

Before prescribing, see complete prescribing information in SK&F CO. literature or *PDR*. The following is a brief summary.

* **WARNING**

This drug is not indicated for initial therapy of edema or hypertension. Edema or hypertension requires therapy titrated to the individual. If this combination represents the dosage so determined, its use may be more convenient in patient management. Treatment of hypertension and edema is not static, but must be reevaluated as conditions in each patient warrant.

Contraindications: Concomitant use with other potassium-sparing agents such as spironolactone or amiloride. Further use in anuria, progressive renal or hepatic dysfunction, hyperkalemia. Pre-existing elevated serum potassium. Hypersensitivity to either component or other sulfonamide-derived drugs.

Warnings: Do not use potassium supplements, dietary or otherwise, unless hypokalemia develops or dietary intake of potassium is markedly impaired. If supplementary potassium is needed, potassium tablets should not be used. Hyperkalemia can occur, and has been associated with cardiac irregularities. It is more likely in the severely ill, with urine volume less than one liter/day, the elderly and diabetics with suspected or confirmed renal insufficiency. Periodically, serum K^+ levels should be determined. If hyperkalemia develops, substitute a thiazide alone, restrict K^+ intake. **Associated widened QRS complex or arrhythmia requires prompt additional therapy.** Thiazides cross the placental barrier and appear in cord blood. Use in pregnancy requires weighing anticipated benefits against possible hazards, including fetal or neonatal jaundice, thrombocytopenia, other adverse reactions seen in adults. Thiazides appear and triamterene may appear in breast milk. If their use is essential, the patient should stop nursing. Adequate information on use in children is not available. Sensitivity reactions may occur in patients with or without a history of allergy or bronchial asthma. Possible exacerbation or activation of systemic lupus erythematosus has been reported with thiazide diuretics.

Precautions: The bioavailability of the hydrochlorothiazide component of 'Dyazide' is about 50% of the bioavailability of the single entity. Theoretically, a patient transferred from the single entities of triamterene and hydrochlorothiazide may show an increase in blood pressure or fluid retention. Similarly, it is also possible that the lesser hydrochlorothiazide bioavailability could lead to increased serum potassium levels. However, extensive clinical experience with 'Dyazide' suggests that these conditions have not been commonly observed in clinical practice. Angiotensin-converting enzyme (ACE) inhibitors can elevate serum potassium; use with caution with 'Dyazide'. Do periodic serum electrolyte determinations (particularly important in patients vomiting excessively or receiving parenteral fluids, and during concurrent use with amphotericin B or corticosteroids or corticotropin [ACTH]). Periodic BUN and serum creatinine determinations should be made, especially in the elderly, diabetics or those with suspected or confirmed renal insufficiency. Cumulative effects of the drug may develop in patients with impaired renal function. Thiazides should be used with caution in patients with impaired hepatic function. They can precipitate coma in patients with severe liver disease. Observe regularly for possible blood dyscrasias, liver damage, other idiosyncratic reactions. Blood dyscrasias have been reported in patients receiving triamterene, and leukopenia, thrombocytopenia, agranulocytosis, and aplastic and hemolytic anemia have been reported with thiazides. Thiazides may cause manifestation of latent diabetes mellitus. The effects of oral anticoagulants may be decreased when used concurrently with hydrochlorothiazide; dosage adjustments may be necessary. Clinically insignificant reductions in arterial responsiveness to norepinephrine have been reported. Thiazides have also been shown to increase the paralyzing effect of nondepolarizing muscle relaxants such as tubocurarine. Triamterene is a weak folic acid antagonist. Do periodic blood studies in cirrhotics with splenomegaly. Antihypertensive effects may be enhanced in post-sympathectomy patients. Use cautiously in surgical patients. Triamterene has been found in renal stones in association with the other usual calculus components. Therefore, 'Dyazide' should be used with caution in patients with histories of stone formation. A few occurrences of acute renal failure have been reported in patients on 'Dyazide' when treated with indomethacin. Therefore, caution is advised in administering nonsteroidal anti-inflammatory agents with 'Dyazide'. The following may occur: transient elevated BUN or creatinine or both, hyperglycemia and glycosuria (diabetic insulin requirements may be altered), hyperuricemia and gout, digitalis intoxication (in hypokalemia), decreasing alkali reserve with possible metabolic acidosis. 'Dyazide' interferes with fluorescent measurement of quinidine. Hypokalemia is uncommon with 'Dyazide', but should it develop, corrective measures should be taken such as potassium supplementation or increased dietary intake of potassium-rich foods. Corrective measures should be instituted cautiously and serum potassium levels determined. Discontinue corrective measures and 'Dyazide' should laboratory values reveal elevated serum potassium. Chloride deficit may occur as well as dilutional hyponatremia. Concurrent use with chlorpropamide may increase the risk of severe hyponatremia. Serum PBI levels may decrease without signs of thyroid disturbance. Calcium excretion is decreased by thiazides. 'Dyazide' should be withdrawn before conducting tests for parathyroid function. Thiazides may add to or potentiate the action of other antihypertensive drugs. Diuretics reduce renal clearance of lithium and increase the risk of lithium toxicity

Adverse Reactions: Muscle cramps, weakness, dizziness, headache, dry mouth; anaphylaxis, rash, urticaria, photosensitivity, purpura, other dermatological conditions; nausea and vomiting, diarrhea, constipation, other gastrointestinal disturbances; postural hypotension (may be aggravated by alcohol, barbiturates, or narcotics). Necrotizing vasculitis, paresthesias, icterus, pancreatitis, xanthopsia and respiratory distress including pneumonitis and pulmonary edema, transient blurred vision, sialadenitis, and vertigo have occurred with thiazides alone. Triamterene has been found in renal stones in association with other usual calculus components. Rare incidents of acute interstitial nephritis have been reported. Impotence has been reported in a few patients on 'Dyazide', although a causal relationship has not been established

Supplied: 'Dyazide' is supplied as a red and white capsule, in bottles of 1000 capsules; Single Unit Packages (unit-dose) of 100 (intended for institutional use only); in Patient-Pak™ unit-of-use bottles of 100.

BRS-DZ L42

In Hypertension*... When You Need to Conserve K+

Remember the Unique Red and White Capsule: Your Assurance of SK&F Quality

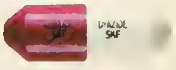
Serum K^+ and BUN should be checked periodically (see Warnings and Precautions).

Potassium-Sparing
DYAZIDE®

25 mg Hydrochlorothiazide/**50 mg** Triamterene/SKF

Over 20 Years of Confidence

The unique
red and white
Dyazide® capsule:
Your assurance of
SK&F quality.



a product of
SK&F CO.
Carolina, P.R. 00630

©SK&F Co., 1983

There's never been a better time for her...

and PREMARIN®

Proven benefits beyond relief of vasomotor symptoms

No other estrogen proven effective for osteoporosis

Only conjugated estrogens tablets have established efficacy in both osteoporosis[1] and vasomotor symptoms* at 0.625 mg/day. No other estrogen, oral or transdermal, has established clinical evidence or minimum effective dose in both indications.

No estrogen proven safer

PREMARIN is the most extensively tested estrogen, with an unsurpassed record of long-term safety.
And clinical evidence shows a significantly reduced risk of endometrial hyperplasia when cycled with a progestin.[2]

PREMARIN®
(conjugated estrogens tablets)

Most trusted for more reasons

*PREMARIN is indicated for moderate-to-severe vasomotor symptoms.

Please see following page for brief summary
of prescribing information

For moderate-to-severe vasomotor symptoms and for osteoporosis

PREMARIN®
(conjugated estrogens tablets)

PREMARIN 0.3
PREMARIN 0.625
PREMARIN 0.9
PREMARIN 1.25
PREMARIN 2.5

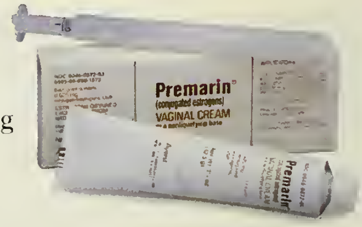
0.3 mg 0.625 mg 0.9 mg 1.25 mg 2.5 mg

The appearance of these tablets is a trademark of Ayerst Laboratories.

For atrophic vaginitis

PREMARIN®
(conjugated estrogens)

Vaginal Cream
0.625 mg/g



BRIEF SUMMARY *(FOR FULL PRESCRIBING INFORMATION AND PATIENT INFORMATION, SEE PACKAGE CIRCULARS.)*

PREMARIN® Brand of conjugated estrogens tablets, USP
PREMARIN® Brand of conjugated estrogens Vaginal Cream, in a nonliquefying base

1. ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA.
Three independent, case-controlled studies have reported an increased risk of endometrial cancer in postmenopausal women exposed to exogenous estrogens for more than one year. This risk was independent of the other known risk factors for endometrial cancer. These studies are further supported by the finding that incidence rates of endometrial cancer have increased sharply since 1969 in eight different areas of the United States with population-based cancer reporting systems, an increase which may be related to the rapidly expanding use of estrogens during the last decade. The three case-controlled studies reported that the risk of endometrial cancer in estrogen users was about 4.5 to 13.9 times greater than in nonusers. The risk appears to depend on both duration of treatment and on estrogen dose. In view of these findings, when estrogens are used for the treatment of menopausal symptoms, the lowest dose that will control symptoms should be utilized and medication should be discontinued as soon as possible. When prolonged treatment is medically indicated, the patient should be reassessed on at least a semi-annual basis to determine the need for continued therapy. Although the evidence must be considered preliminary, one study suggests that cyclic administration of low doses of estrogen may carry less risk than continuous administration; it therefore appears prudent to utilize such a regimen. Close clinical surveillance of all women taking estrogens is important. In all cases of undiagnosed persistent or recurring abnormal vaginal bleeding, adequate diagnostic measures should be undertaken to rule out malignancy. There is no evidence at present that "natural" estrogens are more or less hazardous than "synthetic" estrogens at equi-estrogenic doses.
2. ESTROGENS SHOULD NOT BE USED DURING PREGNANCY.
The use of female sex hormones, both estrogens and progestogens, during early pregnancy may seriously damage the offspring. It has been shown that females exposed in utero to diethylstilbestrol, a nonsteroidal estrogen, have an increased risk of developing, in later life, a form of vaginal or cervical cancer that is ordinarily extremely rare. This risk has been estimated as not greater than 4 per 1,000 exposures. Furthermore, a high percentage of such exposed women (from 30% to 90%) have been found to have vaginal adenosis, epithelial changes of the vagina and cervix. Although these changes are histologically benign, it is not known whether they are precursors of malignancy. Although similar data are not available with the use of other estrogens, it cannot be presumed they would not induce similar changes. Several reports suggest an association between intrauterine exposure to female sex hormones and congenital anomalies, including congenital heart defects and limb-reduction defects. One case-controlled study estimated a 4.7-fold increased risk of limb-reduction defects in infants exposed in utero to sex hormones (oral contraceptives, hormone withdrawal tests for pregnancy, or attempted treatment for threatened abortion). Some of these exposures were very short and involved only a few days of treatment. The data suggest that the risk of limb-reduction defects in exposed fetuses is somewhat less than 1 per 1,000. In the past, female sex hormones have been used during pregnancy in an attempt to treat threatened or habitual abortion. There is considerable evidence that estrogens are ineffective for these indications, and there is no evidence from well-controlled studies that progestogens are effective for these uses. If PREMARIN is used during pregnancy, or if the patient becomes pregnant while taking this drug, she should be apprised of the potential risks to the fetus, and the advisability of pregnancy continuation.

DESCRIPTION: PREMARIN (conjugated estrogens, USP) contains a mixture of estrogens, obtained exclusively from natural sources, blended to represent the average composition of material derived from pregnant mares' urine. It contains estrone, equilin, and 17α-dihydroequilin, together with smaller amounts of 17α-estradiol, equilenin, and 17α-dihydroequilenin as salts of their sulfate esters. Tablets are available in 0.3 mg, 0.625 mg, 0.9 mg, 1.25 mg, and 2.5 mg strengths of conjugated estrogens. Cream is available as 0.625 mg conjugated estrogens per gram.

INDICATIONS AND USAGE: PREMARIN (conjugated estrogens tablets, USP) Moderate-to-severe *vasomotor* symptoms associated with the menopause. (There is no evidence that estrogens are effective for nervous symptoms or depression without associated vasomotor symptoms and they should not be used to treat such conditions.) Osteoporosis (abnormally low bone mass). Atrophic vaginitis. Kraurosis vulvae. Female castration.

PREMARIN (conjugated estrogens) Vaginal Cream is indicated in the treatment of atrophic vaginitis and kraurosis vulvae.

PREMARIN HAS NOT BEEN SHOWN TO BE EFFECTIVE FOR ANY PURPOSE DURING PREGNANCY AND ITS USE MAY CAUSE SEVERE HARM TO THE FETUS (SEE BOXED WARNING).

Concomitant Progestin Use: The lowest effective dose appropriate for the specific indication should be utilized. Studies of the addition of a progestin for 7 or more days of a cycle of estrogen administration have reported a lowered incidence of endometrial hyperplasia. Morphological and biochemical studies of the endometrium suggest that 10 to 13 days of progestin are needed to provide maximal maturation of the endometrium and to eliminate any hyperplastic changes. Whether this will provide protection from endometrial carcinoma has not been clearly established. There are possible additional risks which may be associated with the inclusion of progestin in estrogen replacement regimens. (See PRECAUTIONS.) The choice of progestin and dosage may be important; product labeling should be reviewed to minimize possible adverse effects.

CONTRAINDICATIONS: Estrogens should not be used in women (or men) with any of the following conditions: 1. Known or suspected cancer of the breast except in appropriately selected patients being treated for metastatic disease. 2. Known or suspected estrogen-dependent neoplasia. 3. Known or suspected pregnancy (see Boxed Warning). 4. Undiagnosed abnormal genital bleeding. 5. Active thrombophlebitis or thromboembolic disorders. 6. A past history of thrombophlebitis, thrombosis, or thromboembolic disorders associated with previous estrogen use (except when used in treatment of breast or prostatic malignancy).

WARNINGS: Estrogens have been reported to increase the risk of endometrial carcinoma (see Boxed Warning). However, a recent large, case-controlled study indicated no increase in risk of breast cancer in postmenopausal women. A recent study has reported a 2- to 3-fold increase in the risk of surgically confirmed gallbladder disease in women receiving postmenopausal estrogens.

Adverse effects of oral contraceptives may be expected at the larger doses of estrogen used to treat prostatic or breast cancer or postpartum breast engorgement; it has been shown that there is an increased risk of thrombosis in men receiving estrogens for prostatic cancer and women for postpartum breast engorgement. Users of oral contraceptives have an increased risk of diseases, such as thrombophlebitis, pulmonary embolism, stroke and myocardial infarction. Cases of retinal thrombosis, mesenteric thrombosis, and optic neuritis have been reported in oral contraceptive users. An increased risk of postsurgery thromboembolic complications has also been reported in users of oral contraceptives. If feasible, estrogen should be discontinued at least 4 weeks before surgery of the type associated with an increased risk of thromboembolism, or during periods of prolonged immobilization. Estrogens should not be used in persons with active thrombophlebitis, thromboembolic disorders, or in persons with a history of such disorders in association with estrogen use. They should be used with caution in patients with cerebral vascular or coronary artery disease. Large doses (5 mg conjugated estrogens per day), comparable to those used to treat cancer of the prostate and breast, have been shown to increase the risk of nonfatal myocardial infarction, pulmonary embolism, and thrombophlebitis. When doses of this size are used, any of the thromboembolic and thrombotic adverse effects should be considered a clear risk.

Benign hepatic adenomas should be considered in estrogen users having abdominal pain and tenderness, abdominal mass, or hypovolemic shock. Hepatocellular carcinoma has been reported in women taking estrogen-containing oral contraceptives. Increased blood pressure may occur with use of estrogens in the menopause and blood pressure should be monitored with estrogen use. A worsening of glucose tolerance has been observed in patients on estrogen-containing oral contraceptives. For this reason, diabetic patients should be carefully observed. Estrogens may lead to severe hypercalcemia in patients with breast cancer and bone metastases.

PRECAUTIONS: Physical examination and a complete medical and family history should be taken prior to the initiation of any estrogen therapy with special reference to blood pressure, breasts, abdomen, and pelvic organs, and should include a Papanicolaou smear. As a general rule, estrogen should not be prescribed for longer than one year without another physical examination being performed. Conditions influenced by fluid retention, such as asthma, epilepsy, migraine, and cardiac or renal dysfunction, require careful observation. Certain patients may develop manifestations of excessive estrogenic stimulation, such as abnormal or excessive uterine bleeding, mastodynia, etc. Prolonged administration of unopposed estrogen therapy has been reported to increase the risk of endometrial hyperplasia in some patients. Oral contraceptives appear to be associated with an increased incidence of mental depression. Patients with a history of depression should be carefully observed. Pre-existing uterine leiomyomata may increase in size during estrogen use. The pathologist should be advised of estrogen therapy when relevant specimens are submitted. If jaundice develops in any patient receiving estrogen, the medication should be discontinued while the cause is investigated. Estrogens should be used with care in patients with impaired liver function, renal insufficiency, metabolic bone diseases associated with hypercalcemia, or in young patients in whom bone growth is not yet complete. If concomitant progestin therapy is used, potential risks may include adverse effects on carbohydrate and lipid metabolism.

The following changes may be expected with larger doses of estrogen:

a. Increased sulfobromophthalein retention.

b. Increased prothrombin and factors VII, VIII, IX, and X; decreased antithrombin 3; increased norepinephrine-induced platelet aggregability.

c. Increased thyroid binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by PBI, T_4 by column, or T_4 by radioimmunoassay. Free T_3 resin uptake is decreased, reflecting the elevated TBG; free T_4 concentration is unaltered.

d. Impaired glucose tolerance.

e. Decreased pregnanediol excretion.

f. Reduced response to metyrapone test.

g. Reduced serum folate concentration.

h. Increased serum triglyceride and phospholipid concentration.

As a general principle, the administration of any drug to nursing mothers should be done only when clearly necessary since many drugs are excreted in human milk.

Long-term, continuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomas of the breast, cervix, vagina, and liver. However, in a recent, large case-controlled study of postmenopausal women there was no increase in risk of breast cancer with use of conjugated estrogens.

ADVERSE REACTIONS: The following have been reported with estrogenic therapy, including oral contraceptives: breakthrough bleeding, spotting, change in menstrual flow, dysmenorrhea, premenstrual-like syndrome, amenorrhea during and after treatment, increase in size of uterine fibromyomata, vaginal candidiasis, change in cervical erosion and in degree of cervical secretion, cystitis-like syndrome, tenderness, enlargement, secretion (of breasts), nausea, vomiting, abdominal cramps, bloating, cholestatic jaundice, chloasma or melasma which may persist when drug is discontinued, erythema multiforme, erythema nodosum, hemorrhagic eruption, loss of scalp hair, hirsutism, steepening of corneal curvature; intolerance to contact lenses, headache, migraine, dizziness, mental depression, chorea, increase or decrease in weight; reduced carbohydrate tolerance, aggravation of porphyria, edema, changes in libido.

ACUTE OVERDOSAGE: May cause nausea, and withdrawal bleeding may occur in females.

DOSAGE AND ADMINISTRATION:
PREMARIN® Brand of conjugated estrogens tablets, USP

1. *Given cyclically for short-term use only*: For treatment of moderate-to-severe *vasomotor* symptoms, atrophic vaginitis, or kraurosis vulvae associated with the menopause (0.3 mg to 1.25 mg or more daily). The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible. Administration should be cyclic (eg, three weeks on and one week off). Attempts to discontinue or taper medication should be made at three- to six-month intervals.

2. *Given cyclically*: Osteoporosis. Female castration. Osteoporosis.—0.625 mg daily. Administration should be cyclic (eg, three weeks on and one week off). Female castration—1.25 mg daily, cyclically. Adjust upward or downward according to response of the patient. For maintenance, adjust dosage to lowest level that will provide effective control.

Patients with an intact uterus should be monitored for signs of endometrial cancer and appropriate measures taken to rule out malignancy in the event of persistent or recurring abnormal vaginal bleeding.

PREMARIN® Brand of conjugated estrogens Vaginal Cream

Given cyclically for short-term use only: For treatment of atrophic vaginitis or kraurosis vulvae.

The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible.

Administration should be cyclic (eg, three weeks on and one week off).

Attempts to discontinue or taper medication should be made at three- to six-month intervals.

Usual dosage range: 2 g to 4 g daily, intravaginally, depending on the severity of the condition.

Treated patients with an intact uterus should be monitored closely for signs of endometrial cancer and appropriate diagnostic measures should be taken to rule out malignancy in the event of persistent or recurring abnormal vaginal bleeding.

References:

1. Lindsay R, Hart DM, Clark DM: The minimum effective dose of estrogen for prevention of postmenopausal bone loss. *Obstet Gynecol* 1984;63:759-763. **2.** Studd JWW, Thom MH, Paterson MEL, et al: The prevention and treatment of endometrial pathology in postmenopausal women receiving exogenous estrogens, in Pasetto N, Paoletti R, Ambrus JL (eds): *The Menopause and Postmenopause*. Lancaster, England, MTP Press Ltd, 1980, chap 13.

© 1987 Ayerst Laboratories
All rights reserved

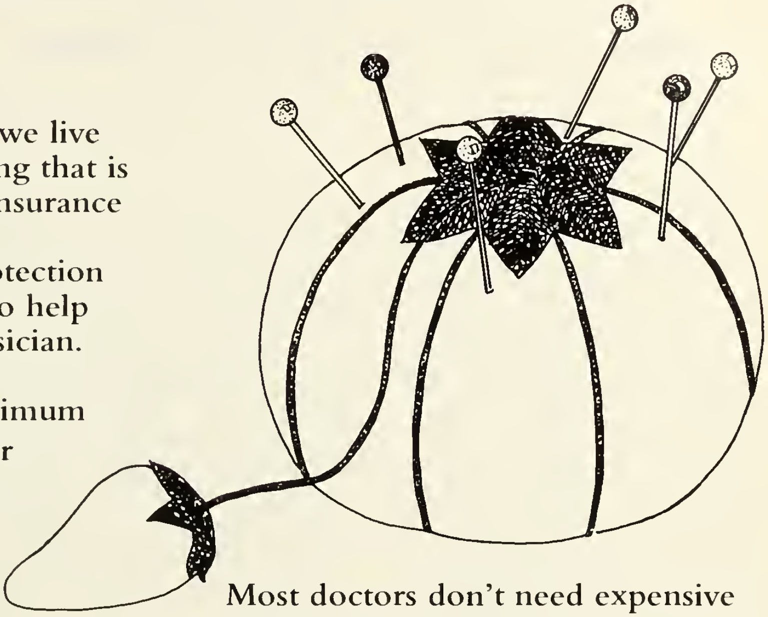
6437/587

Ayerst®
AYERST LABORATORIES
New York, NY 10017

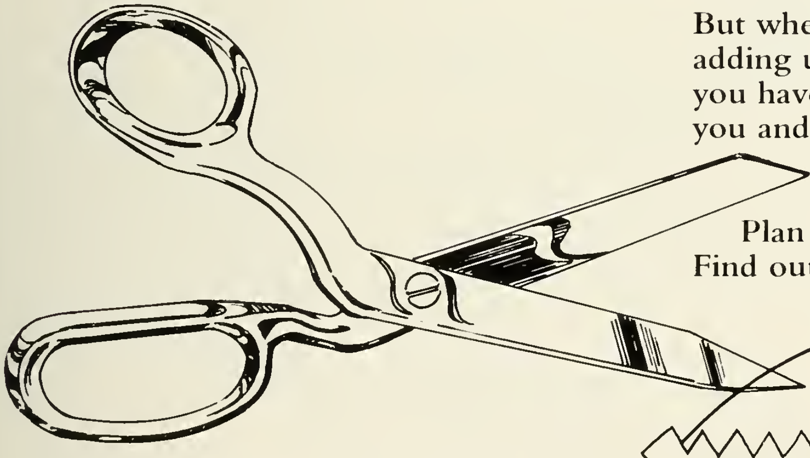
We've got a plan that fits!

In the one-size-fits-all world we live in, it's difficult to find anything that is tailor-made. MSMA Group Insurance is the exception. The MSMA $1,000,000 Major Medical Protection Plan is specifically designed to help fill the needs of you, the physician.

- $1,000,000 lifetime maximum
- Choice of $200, $500, or $1,000 deductible
- Lifetime coverage
- Low group rates



Most doctors don't need expensive "first dollar" major medical coverage. But when those hospital costs start adding up, you need to be sure that you have a solid plan that will protect you and your family. We've designed the MSMA $1,000,000 Major Medical Protection Plan exclusively to do just that. Find out more about it today!



Administered by: Forrest T. Jones & Co., Inc.
Kansas City, MO

Underwritten by: The Mutual Life Insurance Company of New York

CALL NOW OR CLIP THE COUPON:
National - 800-821-7303
Missouri - 800-892-7272
Kansas City - 756-1060
ASK FOR JAN PACEY

CLIP THE COUPON
AND MAIL TO:
Forrest T. Jones & Company, Inc.
P.O. Box 418131
Kansas City, MO 64141-9131

I'd like more information on the MSMA $1,000,000 Major Medical Plan.

Name ____________________

Address ____________________

City ____________________

State __________ Zip __________

my•o•pia

\mī-ˈō-pē-ə\: deficiency of foresight

SYMPTOMS: Most often observed in professionals who are inundated with day-to-day responsibilities. Dedicated to the needs of others, subject becomes focused on today... at the expense of tomorrow's full potential. May have complicated, expensive retirement plan with scattered investments and sometimes unfocused or nonexistent financial objectives. The lack of sufficient time and professional guidance may result in feelings of anxiety over future well-being of self, family and staff.

DIAGNOSIS: Financial myopia (common to this overworked peer group).

COMPLICATIONS: May not know where to turn for advice that is professional, comprehensive, personalized, flexible, diverse and *painless*.

R_x: As a member of the Missouri State Medical Association, you are eligible for treatment by highly qualified retirement planning specialists—no charge for initial consultation or subsequent quarterly or semiannual checkups. For security and peace of mind tomorrow (and possibly lower costs), call today for Michael Grimes - Director or Thomas Knapko - Associate Director at E.F. Hutton. Call collect 314-725-9690.

CONTRAINDICATIONS: None.

MISSOURI STATE MEDICAL ASSOCIATION
A membership benefit offered in conjunction
with Trust Consultants, Inc., and E.F. Hutton.

EDITOR'S DESK

by Jordan W. Burkey, M.D.
Editor

Missouri Medicine's metamorphosis

Medicine isn't practiced the same way now as when many of us graduated. The field of journalism isn't the same, either, any more than other arts and sciences.

During the past few years the role of regional and state medical journals has also undergone adaptations to newer needs. Seventy-five years ago local medical publications would perhaps include such articles as a report from Dr. Goodengray from Cornerville telling how he staved off a case of diphtheria using a concoction of cream of tartar, sulphur and molasses.

By the 1930s some physicians had taken an extra year of training — they were *specialists*. Then one might read a dissertation by a city doctor about a variation in technique which resulted in a few less drops of blood being lost during tonsillectomy. Anything of real importance was more liable to be in the *New England Journal* or *JAMA*.

As medical science has advanced there has been a proliferation of national and international publications which we all use in keeping up with our various areas of medicine. At the same time many more political, socio-economic and other related concerns to physicians have evolved. In trying to meet the needs of their readers in this changing milieu, at least two of the 35 state medical journals no longer print scientific articles, preferring to give full attention to other, para-medical problems specific to their areas.

Recognizing this trend, the Publications Committee of the MSMA last winter requested funding for more editorial help, to allow *Missouri Medicine* to venture a bit journalistically. The Council approved the request, and Valerie Peters, a magazine journalism graduate of the University of Missouri-Columbia, was added to the staff. The first fruit of her labor is the Preferred Provider-HMO article in this issue, discussing the impact of prepaid health plans on Missouri physicians.

We hope to bring you one or more articles each month on medicine-related subjects of interest to all of us, while continuing to print the best possible scientific articles. There'll be interviews with persons who influence the way medicine is practiced in this state. The medical museums in this area are deserving of a story. Tangles with third party carriers in the Show-Me State merit more editorial dissection. Then there are medical considerations concerning a possible re-run of the New Madrid earthquake. We best print that one soon — experts say a quake could happen any time! ■

> *Last winter the Publications Committee of the MSMA requested funding for more editorial help to allow* Missouri Medicine *to venture a bit journalistically.*

State flag of Missouri

Flag It.

To complete your prescription,
be sure to sign on the right,
on the "Dispense As Written" line.
This "flags" both pharmacist and patient
that you want the *brand* to be dispensed.
And it protects your decision.

VALIUM®
brand of
diazepam/Roche ⓘⓥ

scored tablets

2 mg 5 mg 10 mg

The one you know best.

The cut out "V" design is a registered trademark
of Roche Products Inc.

Copyright © 1987 by Roche Products Inc.
Manati, Puerto Rico 00701. All rights reserved.

ROCHE®

Auxiliary Message

by Marge Perkins
MSMAA
Membership
Chairman

If your spouse is not an Auxiliary member, be sure they fill out the attached form. The appropriate county, state and national membership information will be forwarded promptly!

Driving fore membership

Did you know the game of golf and getting members for the MSMA Auxiliary have a lot in common? They both are frustrating, aggravating and very discouraging! However, they can also be very rewarding, invigorating and very, very encouraging.

The rewards come from knowing and working with other doctor's spouses and associating with one of the most involved health organizations in the community. It is invigorating to have a voice in the local, state and national affairs of the AMA Auxiliary; to attend free leadership and educational seminars; to receive FACETS, the AMAA magazine for and about physicians' spouses and the AUXILIGRAM, the publication of the MSMA Auxiliary. The encouraging thing about Auxiliary membership is to see improved health care and medical practice by influencing legislation; to be able to provide financial assistance to medical students through the Missouri State Medical Foundation (MSMF); to provide Auxiliary membership to spouses of medical students, residents and interns through Sponsor A Spouse (SAS) and to support important scientific and medical research through the American Medical Association Educational Research Foundation (AMA-ERF).

Those of you who play golf know that the game is a lot of fun. It is great getting together with friends in your community or even meeting new ones at a state tournament. Watching Tom Watson, Hale Irwin, Payne Stewart and other Missouri golfers do well on national TV is quite enjoyable.

The same fun, sociability and pride is part of Auxiliary membership. From county meetings where members gather to work on health fairs for children, to preparing egg rolls to raise money for AMA-ERF or to enjoying lunch and a fashion show, Auxiliary fellowship is special. We gather at the state meetings to exchange ideas with our neighboring states. Fall Conference coordinates interesting speakers during two delightful days of receiving pertinent information and renewing statewide friendships. Our "Day at the Legislator" allows us to meet and talk to our state legislators. Our annual convention is held in conjunction with the MSMA convention each spring so that we can talk about our accomplishments of the year.

We certainly have pride in our Auxiliary members. Many have gone on to serve on AMA Auxiliary committees and two from Missouri, Betty Sutter (Richard) and Mary Kay McPhee (William) have served as President of the AMA Auxiliary.

If your spouse is not a member of this great MSMA Auxiliary team, please have them fill out the form on page 636. The appropriate county, state and national information will be sent back promptly. Membership in the Auxiliary is on an individual basis, as is

Continued on page 636

■ Auxiliary Message

Continued from page 635

playing golf. However, you need your County Medical Society Auxiliary (friends with which to play and enjoy golf), the Missouri State Medical Association Auxiliary (the right equipment to help your game) and the American Medical Association Auxiliary (the golf course on which to play) to have the most rewarding, invigorating and encouraging game possible.

Join the team! We need each other! ■

An Invitation . . .

The Editorial Board of *Missouri Medicine* invites the members of the Missouri State Medical Association to submit examples of their art work for publication on the cover of *Missouri Medicine.* Color photographs, preferably transparencies, as well as photographs of paintings, drawings, sculpture, ceramics, jewelry, etc. are all welcome. There is no limit as to subject, although pictures of Missouri or subjects topical to a month or season may have a slight advantage. Please submit entries to "Cover," *Missouri Medicine,* P.O. Box 1028, Jefferson City, MO 65102.

YES, I want to become a member of the Auxiliary Team.

NAME ____________________ SPOUSES' ____________

ADDRESS ____________________
STREET

____
CITY COUNTY* STATE ZIP

PHONE NUMBER ____________________
AREA CODE

*If the county you live in (or your spouse practices in) does not have an organized Auxiliary, would you BE willing ________ or not be willing ________ to help your state officers organize an Auxiliary. If none is organized, you will be a member-at-large.

Return this form to:

MARGE PERKINS (DAVID E.)
11 DUNLEITH DRIVE
ST. LOUIS, MISSOURI 63131

and county, state and national information will be sent back promptly.

PRACTICE MANAGEMENT

by George S. Conomikes

This month I review how to evaluate possible suppliers and vendors of computer services.

Selecting a computer

My September article outlined what's available in the computer marketplace and what types of applications to look for and expect. This month I recommend how to review possible suppliers and vendors of computer services.

The first question is: "Who should do the investigating?" Probably it should be done on 3 levels:

Physician Level

Check out vendors by talking with your physician references. On-site visits are a waste of time for physicians. If you are in a partnership or group practice only one physician should be undertaking investigations.

Office Manager — Supervision Level

The practice's office manager should visit the sites of practices that are users of the services and systems of the vendors. Questions the manager should ask include the following:

a) Did the vendor live up to the contract and to other promises made?
b) What were the costs of conversion?
    - Personnel costs, including overtime.
    - Training costs, including overtime.
    - Outside service costs.
    - Facilities changes (electricity, wiring, air conditioning, space conversion).
c) Any personnel problems with your staff? Morale? Turnover of key employees?
d) How much down-time do you experience?
e) How good is the vendor in giving you service when you have problems such as down-time or other hurdles?
f) Is the training done at the vendor's offices or on your premises? Was this costly and interruptive?
g) Has the system saved the practice any money? Personnel costs? Supplies?
h) What is the cost-per-statement now compared to your old system?
i) Would you convert to this system again if you had your choice? What else would you do?

Clerical Billing Level

The employee most involved in billing, collections and insurance work should visit the referred practice, probably in conjunction with the office manager's second visit. The clerical billing employee should meet with the keyboard operator or clerical most involved with the vendor system. This level of inquiry would not be necessary for the accounts receivable management service, since billing/collections work would no longer take place at the practice. It is also not very likely to be necessary for the batch-processing service bureau mode.

What to ask:

a) Be shown how the system is operated.
b) Is the system "friendly?" In

Continued on page 638

Practice Management

Continued from page 637

other words, is the operator guided in what to do at each step of the way in making entries?

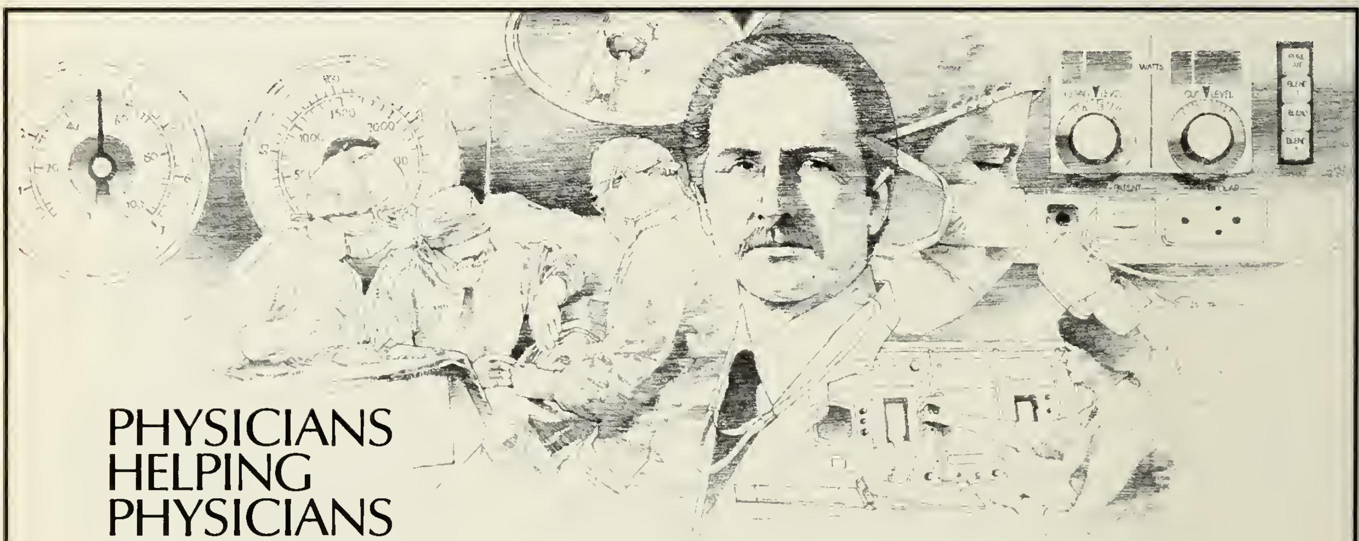
c) Is the system fast or slow in finding and displaying data?
d) Is the screen easy to read? Characters clear? Glare problems?
e) How many statements are sent out each month?
f) How long does it take to prepare and send statements?
g) Is billing input up-to-date every day?
h) What other duties does the billing operator perform? How long do they take?
i) Does she like the system? Would she prefer to go back to the previous system? Is there any other system she would prefer?
j) What is the error rate in this system?
k) How many requests for additional information are received from insurance carriers?
l) How many insurance claims are denied and why?

Other Considerations With Your Own Mainframe Computer

a) If your practice grows, in volume or number of physicians, can the computer hardware be expanded?
b) What could the physician(s) do alternately with the money they are investing in the computer system?
c) What would happen if the physicians separated?
d) Has your accountant reviewed the tax aspects of your computer purchase?
e) Recognize that your vendor can go out of business. (Two well-financed organizations, Northrup and Sequoia, went out of the medical computer business.)
f) Don't buy a computer for tax reasons.

Other Considerations

a) How long has the company been in business?
b) How many clients have they had and for how long?
c) Request the entire client list and call any clients you wish. If the entire client list is not available, what is the vendor trying to hide?
d) Be sure you prepare your staff for any changes you plan well in advance. Involve key employees in the decision-making process.
e) It is almost impossible to beat the low-cost of statements in a pegboard system. However, other factors such as reports and insurance processing make the economic picture not the only consideration. ■



PHYSICIANS HELPING PHYSICIANS

Risk Control Associates is more than just a service for physicians; we are an insurance company established, owned, and managed BY physicians. Consequently, RCA is committed to providing a strong, solid posture in claims defense and the highest quality coverage at competitive rates.

We know your needs through our own experience. Part of RCA answering your needs is the Risk Management Program. The principles and procedures of Risk Management have been carefully developed by physicians, clinic managers, lawyers, and insurance people experienced in the medical field.

For competitive quotations on your professional liability, call us, (417) 862-0650.

RISK CONTROL ASSOCIATES, INC.
MEDICAL LIABILITY INSURORS
1111 S. Glenstone Springfield, MO 65804
MISSOURI CHAPTER 383 COMPANY

Motrin® 800 TABLETS mg
ibuprofen

MOTRIN
800mg

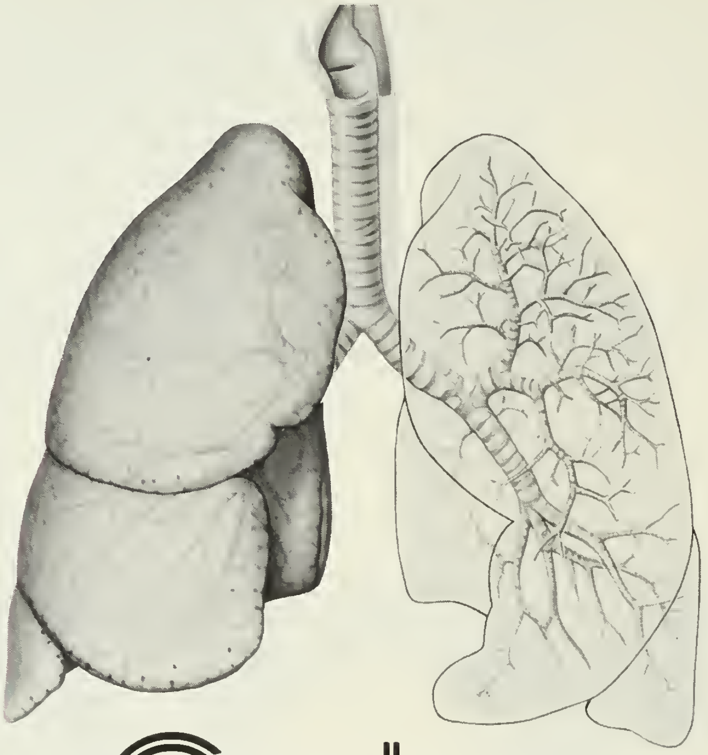
Extra strength
Convenience
Economy

Upjohn
100
A Century
of Caring
1886-1986

©1986 The Upjohn Company

J-6138 January 1986

Consider the causative organisms...



Ceclor®
cefaclor

250-mg Pulvules® t.i.d.
offers effectiveness against the major causes of bacterial bronchitis

Haemophilus influenzae, Streptococcus pneumoniae
(ampicillin-susceptible and ampicillin-resistant)

Note: Ceclor is contraindicated in patients with known allergy to the cephalosporins and should be given cautiously to penicillin-allergic patients.

Penicillin is the usual drug of choice in the treatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever. See prescribing information.

Ceclor® (cefaclor)

Summary. Consult the package literature for prescribing information.

Indications: Lower respiratory infections, including pneumonia, caused by susceptible strains of *Streptococcus pneumoniae, Haemophilus influenzae,* and *Streptococcus pyogenes* (group A β-hemolytic streptococci)

Contraindication:
Known allergy to cephalosporins.

Warnings:
CECLOR SHOULD BE ADMINISTERED CAUTIOUSLY TO PENICILLIN-SENSITIVE PATIENTS. PENICILLINS AND CEPHALOSPORINS SHOW PARTIAL CROSS-ALLERGENICITY. POSSIBLE REACTIONS INCLUDE ANAPHYLAXIS.

Administer cautiously to allergic patients.

Pseudomembranous colitis has been reported with virtually all broad-spectrum antibiotics. It must be considered in differential diagnosis of antibiotic-associated diarrhea. Colon flora is altered by broad-spectrum antibiotic treatment, possibly resulting in antibiotic-associated colitis.

Precautions:
- Discontinue Ceclor in the event of allergic reactions to it.
- Prolonged use may result in overgrowth of nonsusceptible organisms.
- Positive direct Coombs' tests have been reported during treatment with cephalosporins.
- Ceclor should be administered with caution in the presence of markedly impaired renal function. Although dosage adjustments in moderate to severe renal impairment are usually not required, careful clinical observation and laboratory studies should be made.
- Broad-spectrum antibiotics should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.
- Safety and effectiveness have not been determined in pregnancy, lactation, and infants less than one month old. Ceclor penetrates mother's milk. Exercise caution in prescribing for these patients.

Adverse Reactions: (percentage of patients)

Therapy-related adverse reactions are uncommon. Those reported include:
- Gastrointestinal (mostly diarrhea): 2.5%.
- Symptoms of pseudomembranous colitis may appear either during or after antibiotic treatment.
- Hypersensitivity reactions (including morbilliform eruptions, pruritus, urticaria, and serum-sickness-like reactions that have included erythema multiforme [rarely, Stevens-Johnson syndrome] or the above skin manifestations accompanied by arthritis/arthralgia and, frequently, fever): 1.5%; usually subside within a few days after cessation of therapy. Serum-sickness-like reactions have been reported more frequently in children than in adults and have usually occurred during or following a second course of therapy with Ceclor. No serious sequelae have been reported. Antihistamines and corticosteroids appear to enhance resolution of the syndrome.
- Cases of anaphylaxis have been reported, half of which have occurred in patients with a history of penicillin allergy.
- As with some penicillins and some other cephalosporins, transient hepatitis and cholestatic jaundice have been reported rarely.
- Rarely, reversible hyperactivity, nervousness, insomnia, confusion, hypertonia, dizziness, and somnolence have been reported.
- Other: eosinophilia, 2%; genital pruritus or vaginitis, less than 1%; and, rarely, thrombocytopenia.

Abnormalities in laboratory results of uncertain etiology
- Slight elevations in hepatic enzymes.
- Transient fluctuations in leukocyte count (especially in infants and children).
- Abnormal urinalysis; elevations in BUN or serum creatinine.
- Positive direct Coombs' test.
- False-positive tests for urinary glucose with Benedict's or Fehling's solution and Clinitest® tablets but not with Tes-Tape® (glucose enzymatic test strip, Lilly).

[072886R]

PA 8794 AMP

©1987, ELI LILLY AND COMPANY

Additional information available to the profession on request from Eli Lilly and Company, Indianapolis, Indiana 46285.

Eli Lilly Industries, Inc
Carolina, Puerto Rico 00630

700241

CONTROVERSY

HMOs in Missouri

By Valerie A. Peters

Alternate health care delivery systems, especially health maintenance organizations (HMOs), are one of the hottest topics in medicine these days. In an attempt to revolutionize health care in the United States, HMOs in particular have met with an array of opinions from Missouri physicians. Yet, amid controversy in some parts of the state, HMOs and other alternate delivery systems have become a strong part of Missouri's medical industry.

The real controversy between HMOs and Missouri physicians began after St. Louis-based McDonnell Douglas Corporation started investigating ways to reduce costs for their health benefits plan. They invited several organizations to set up prepaid health plans in St. Louis for their more than 40,000 employees. When none moved quickly enough to suit the company, McDonnell Douglas and Sanus Health Systems started Sanus Health Plan, an IPA-model HMO in 1984.

As Robert Rubin, M.D. of St. Louis tells it, McDonnell Douglas saw a way to cut costs but eventually got burned.

"They brought an HMO in here because they thought they had a good deal," he says. "They thought all their employees would join Sanus. It turned out that employees didn't want any part of it. So now they're trying to sell it."

According to Jim Profitt, health-benefits manager for McDonnell Douglas, Sanus is not for sale. McDonnell Douglas is, however, selling its controlling interests in the health plan.

As other alternate delivery plans began to filter into St. Louis, Dr. Rubin and another internist, Dr. Irwin Schiltz turned their concern into the St. Louis Medical Practice Committee (SLMPC) to defend fee-for-service medicine. They published ads attacking the new HMOs and PPOs, charging the organizations with recommending reduced levels of care.

"We had such a good response that we're on our fifteenth ad now," Dr. Rubin says. Because the group decided to go statewide, the name was changed to the American Medical Practice Society (AMPS). The membership count has reached 300 and following a statewide mailing in August, Dr. Rubin hopes to enlist members from all parts of Missouri.

The AMPS ads, which have been published regularly in the St. Louis Post Dispatch, are mainly educational, Dr. Rubin says. The doctors contend that patients will abandon the plans when they realize that the HMOs cannot provide quality care.

"I think eventually HMOs will run themselves into the ground," Dr. Rubin says. "I don't have to do it for them. We're just going to expose some of the things so that people know ahead of time what they're getting into."

While St. Louis is the hotbed for HMO controversy in Missouri, physicians in other areas of the state are actively voicing their opinions on the health maintenance organizations.

In Greene County, Springfield physicians tend to support the views AMPS promotes. Dr. Stanley Peterson, a Springfield internist and a member of the Greene County Medical Society, offers a view most of his

Springfield colleagues echo.

"HMOs are simply prepaid medical systems. **Pay** systems, not provide care (systems)," he says. "We (doctors) do all the things that HMOs do without an HMO. We've been in the HMO business (in Springfield) of not having an HMO for 12 years."

This sentiment was reflected by the Greene County Medical Society at the 129th Missouri State Medical Association (MSMA) Annual Convention. They submitted a philosophy statement to the 1987 House of Delegates that addressed the choice of fee-for-service over the HMOs and other prepaid plans. An excerpt from the statement reads: "We believe unrestricted sharing of information on changing health care systems is essential for both patient and physician. . . . This relationship, physician-independent judgment and minimizing conflict of interest is best served by fee-for-service."

The resolution failed, but clearly expressed the opinion of Greene County physicians. Dr. Duane Hellam, Greene County President says, "We did not argue against (HMOs), we only argued in favor of something we feel very strong about — fee-for-service."

Although HMOs have researched Missouri's other primary medical communities, they have yet to penetrate Columbia, Joplin or Cape Girardeau. The controversy surrounding HMOs in St. Louis and Springfield has not erupted in these areas. According to one Southeast Missouri physician, several national HMOs have ventured into the area to talk with physicians but left without much hope.

"Down here, we're just far enough away that it's hard for an HMO to establish itself unless physicians are willing to go along with it," he says. "And physicians in this area are just **not** interested in dealing with it."

> "We do all the things that HMOs do without an HMO. We've been in the business of not having an HMO for 12 years."
>
> **Stanley Peterson, M.D.**

However, the physicians in the southeast corner have dealt with it so far as to set up their own IPA, just in case. The IPA is not functional presently, but the paperwork and legal work are finished. Physicians see this as their alternative choice to an HMO, since most would rather deal with the IPA as opposed to working with an HMO.

In Joplin, 80 physicians have formed the Four State Physicians Association to explore the options of a prepaid plan and to look at various alternatives. So far, under the leadership of president Mike Nickell, M.D., the physicians have raised more than $80,000. To date, no HMO has been established in Southwest Missouri.

Yet, in metropolitan Kansas City, prepaid plans, including HMOs, have come in with virtually no resistance. Ron Cosens, Executive Secretary of the Metropolitan Medical Society of Greater Kansas City, says that most of the physicians in the Kansas City area think the alternative delivery systems are a necessary evil these days.

"They have basically resigned themselves to the fact that the systems are here to stay," he says. "They are just trying to get on more even par with them."

To help physicians in the Metropolitan Medical Society deal with the barrage of HMO contracts they receive, Cosens and his associates have established a contract review system. This program gives area physicians access to an in-depth evaluation of selected third party contracts being marketed in the Kansas City medical arena.

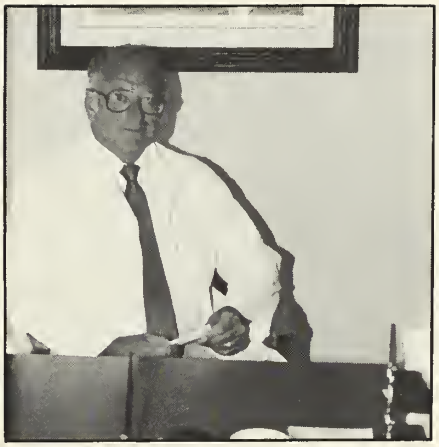
"We basically tell doctors the good and bad of contracts," Cosens says. "With the preponderance of HMOs, we felt doctors were signing contracts without determining if it is in their best interest."

Cosens says that the HMOs sometimes write the contracts totally slanted in their favor, yet doctors sign them, usually on good faith.

Fred Hahn, M.D., a Kansas City otolaryngologist, agrees that the contract review is a good thing.

"Physicians are not used to reading fine print and contracts," he says, "and physicians have been less than well-informed (about HMO contracts)."

Dr. Hahn and his associates belong to a Blue Springs network of PrimeHealth, a Kansas City-based staff-model HMO. PrimeHealth, which lost $2.8 million last year, has been in operation for 11 years as a not-for-profit HMO but this year is switching to a for-profit model. This decision may be



Valerie Peters photos

Robert Rubin, M.D. (left) of St. Louis says that HMOs place more concern on the corporate bottom line than on patient care. Richard Fallon, M.D. (right), medical director of Maxicare in St. Louis, maintains the patient always comes first.

met with some criticism from the groups that target the for-profit HMOs as the biggest culprits in the prepaid plan system. In St. Louis, most of the anti-HMO sentiment is directed at the for-profit HMOs.

"They (the for-profit HMOs) are only interested in dividends for the stockholders," Dr. Rubin says. "Patient care comes second. And the bottom line? Making a profit comes first."

Brant Mittler, M.D., a San Antonio cardiologist and president of Physicians Who Care, agrees that doctors must make a decision to serve their patients rather than the corporate bottom line.

"All of us made a pledge to care for our patients, not to become agents of some third party," he says, "and this is the way HMOs have threatened to fundamentally alter the doctor/patient relationship. Instead of becoming advocates of patients, doctors are becoming hired hands of giant corporations more interested in saving dollars than saving lives."

Dr. Hellam voices a similar concern.

"The problem with an HMO is that it changes fundamentally and unalterably the doctor/patient relationship," he says. "The doctor, instead of being the single most important patient advocate, finds himself in a conflict of interest situation. Ninety percent of what serves the patient well serves the HMO well also. Ten percent constitutes that care needed by an employee that isn't approved by the HMO. So how do you solve that?"

Bruce Barter, M.D., medical director of PrimeHealth, argues that the bottom line is important, but not at the expense of patient care.

"Obviously you have to look at the bottom line," he says. "It's an old criticism that HMOs are going to withhold care because it's expensive to provide care. That's a ridiculous argument. That's no more true than saying that physicians will do things that don't need to be done in order to generate income."

Dr. Barter says that the incentive is not only to do what is necessary, but to do it quicker. To save money, physicians are encouraged to catch a problem before it becomes necessary to treat the complications.

"We're always going to do what's right for the patient," he says. "The bottom line has nothing to do with that."

But even with that assurance, some physicians still have doubts. Dr. Hahn is one such physician who has mixed feelings about the system.

"If a person comes in with a red eye, he sees an optometrist first," he says. "Then if deemed necessary, the optometrist refers the patient to the ophthalmologist. Now if you call **that** good medicine. . . ."

Dr. Hahn says that although the physicians who work for PrimeHealth must follow their guidelines, he doesn't always think the guidelines are good.

"Quality is too frequently related to cost," he explains. "Within this system, the bottom line (for me) has to be cost. I realize we have to have cost control, but we're not maintaining patient care as well."

Firms and corporations seeking to cut their annual tab for employee health care are concerned about that claim. They want to make sure that they are paying for and receiving quality care when they contract with an HMO. They read the press clippings that make quality the issue.

Some doctors complain that HMOs provide negative incentives for quality care. In some HMOs, a doctor receives a set fee for a particular patient's treatment for a year. What many doctors contend is that this practice tempts physicians employed by the plan to provide less care to the patient in order to increase salary. This "gatekeeper" system gives the patient's physician the authority to control how much and what kind of medical care is received.

Dr. Barter says that the physician is being asked to determine if something is "medically necessary." This, he says, is something that most fee-for-service physicians don't do. Most fee-for-service patients can afford to have any medical test done if they so choose — whether it is medically necessary or not. At PrimeHealth, the physician makes that determination for the patient.

"I think there are patients who don't like that and I think there are doctors who don't like that role," Dr. Barter admits.

Critics cite the physician's gatekeeper role as an example of the conflict of interests that HMO physicians face. The gatekeeper may be loyal to the bill payer — the HMO — instead of to his patient. For this reason, the physician may be more likely to cut corners.

"I think we have a problem," says Dr. Marvin Singleton of Joplin. "When you get paid by how little service you provide, there's a dichotomy (between patient and HMO). It becomes an ethical question as well as an economic question."

Physicians who have joined HMOs and examined the system from inside offer some of the strongest criticisms. "The idea of an HMO is to conserve care, restrict care. The less you do for a patient, the more money you make," one physician stated in a September 1986 *Wall Street Journal* article.

Richard Fallon, M.D., medical director of Maxicare in St. Louis, disagrees. Maxicare began operations in 1984 and enrollment stands currently at 33,000.

"My immediate reaction is that they have no good facts to base this (belief) on," he says. "I've been in training and fee-for-service practice since 1964 and I certainly know the standards of care.

"Without any reservations, I can say that our quality of care is as good if not better than fee-for-service practice."

Dr. Rubin offers an opposing view.

"If an HMO would deliver **good** health care and be reasonable, I would have no objection to that," he says. "But

Health maintenance organizations are attractive to some physicians for several reasons. They offer assured financial security since they provide a guaranteed income. For young physicians just out of a residency, they take away the problems and costs of buying equipment, hiring staff and establishing a private practice, while also allowing the young physician to work regular hours. In addition, the HMO demands few administrative responsibilities from physicians who may prefer not to be involved in the business side of medicine.

Dr. Bruce Barter, medical director of Prime Health, a staff-model HMO in Kansas City, cites his reasons for opting for a prepaid plan.

"It's the advantage of a group," he says. "You have colleagues that are well-trained, that you can trust, that you can turn your patients over to when you go on vacation. You get nights when you're not on call and you get weekends that you can enjoy with your family."

Another reason HMOs are attractive to new doctors is the ability to build a patient base right away. That becomes more important as the population of doctors in urban areas grows faster than the population at large. Between 1965 and 1975, the number of U.S. medical schools rose from 88 to 114 and the number of first-year medical students rose from 8,759 to over 16,000. That means a high level of competition between new doctors for the same patients.

Another benefit that most HMOs offer is malpractice insurance. For physicians who work for PrimeHealth, their malpractice insurance is paid for, allowing them to practice medicine without forking over huge sums of profit to pay for coverage. For some specialties, especially obstetrics, that looks inviting.

"Many obstetricians are being forced to give up obstetrics because of malpractice premiums," Dr. Barter says. Having the malpractice premiums paid for them, allows when an HMO is cutting corners to make a profit and the result is patients getting short changed, I think that's wrong.

"We're (AMPS) fighting for a principle," he adds. "If an HMO is going to give **good** care, fine, let them do it. If they can do it cheaper than I can, which I doubt, they should."

Dr. Mittler shares Dr. Rubin's feelings on the subject.

"I think we as physicians ought to be defenders of quality," he says. "It's important for physicians to speak up. And that's why we formed Physicians Who Care."

Physicians Who Care (PWC) is a group of physicians, like AMPS, who are opposed to prepaid and corporate-controlled health care. The national anti-HMO organization has vowed to work together to promote quality medicine, educate the public on health care issues and reaffirm the importance of the doctor/patient relationship. The group represents about 2,000 dues-paying physicians, including some Missouri doctors. Along with his work with AMPS, Dr. Rubin serves as a vice-president to PWC.

PWC argues that prepaid plans hold back on patient care — fewer tests, shortened hospital stays, reduced referrals — to gain profits. In addition, they say that gatekeeper HMOs, in particular, tell physicians how to practice medicine, then use financial incentives to tempt doctors into undertreating their patients.

Dr. Barter says negative incentives are not prevalent in PrimeHealth's operation. He says that the physicians in PrimeHealth get a base salary that does not change regardless of who they refer to, how often they refer, or how often they hospitalize.

"We try not to put financial incentives here one way or the other on the physicians," he says. "We want him to do what's best for the patient, without having his money relate to it."

Critics of PWC claim the anti-HMO physicians are trying to preserve physicians' incomes while making the quality issue a smoke-screen. Dr. Rubin says the issue goes much deeper than lining private physicians' pockets.

"We are not interested in doctors' incomes going up," he says. "We think there is an idealism that has to be kept. You've got a commitment to your patient. That's number one."

Paul Ellwood, M.D., of Excelsior, MN and inventor of the term HMO, says people are losing their willingness to spend more dollars on health care. Dr. Mittler adamantly disagrees.

"The American people don't want their health care rationed," he says. "The people are *not* willing to spend less money on health care and they don't want the cheapest

them to practice their specialty without that added worry.

A down side of being an HMO physician exists also. By becoming an employed physician after practicing privately, a doctor loses, to at least some extent, his preferred style of practice. In addition, his income is likely to drop considerably, he may feel more like a number in a large, impersonal system and most importantly, he may have less personal relationships with his patients. These knocks against HMOs make many physicians think twice before signing on the dotted line.

For patients, HMO membership allows more predictable budgeting of individual health care expenses. In addition, most HMOs do not require claim forms for reimbursement of services and there are usually no deductibles or copayments.

On the down side, though, HMO patients give up their right to receive care outside the HMO system. A patient's freedom of choice is restricted to physicians and facilities determined by the HMO. If that patient goes outside the system, he or she must pay out-of-pocket for medical care. Members are assigned a "primary physician" who provides all routine care to that patient, yet when the patient goes in for care, he or she may be seen by another physician. The primary physician also serves as the gatekeeper. He or she must approve requests for specialists care before referring the patient. Hospitalization is also tightly controlled, using firm length-of-stay guidelines.

"I think another misconception people have of us is that we are a clinic," Dr. Barter says. " 'Clinic' meaning that you don't have your own doctor, you come in and see whoever is there that day. That's just not true. People call, make an appointment and they form a relationship with their physician. We encourage people to see **their** doctor every time they come. And the doctors are here." ■

A health maintenance organization (HMO) guarantees voluntarily enrolled members a specific set of health care services from designated providers, including hospitals and physicians. Members pay a fixed monthly premium, which is the same regardless of the amount of services received. HMOs are similar to insurance companies; unlike traditional insurance plans, HMOs shop around for the best price on hospital, laboratory and other services for their members. Varying in form, some health maintenance organizations own facilities and employ their own physicians. Others operate with a series of contractual arrangements with physicians and hospitals in a defined area.

There are three basic types of HMOs:

- **Staff Model** — physicians are direct employees of the HMO and are usually limited to major site locations.
- **Group Model** — physicians are members of a single specialty or multispecialty professional group practice that contracts with the HMO to provide services to members for a predetermined amount per member, per month.
- **Independent Practice Association (IPA)** — physicians continue to practice in their own offices, but provide services to HMO enrollees for a capitation or pre-member amount paid to the organization by the HMO. Non-capitation IPAs are another alternative available. IPA physicians may maintain their fee-for-service patients. IPAs are considered "HMOs without walls" and represent 50% of all HMOs. ■

doctor."

Dr. Ellwood admits that competition centered on dollars poses problems for the medical field.

"As a physician who after practicing for 17 years then spent 17 years trying to reshape the American way of medical care, I'm disappointed in the way things turned out," Dr. Ellwood says. "I'm not satisfied."

Dr. Ellwood has previously suggested that by the mid-1990s giant "supermeds" would dominate American health care. He has since reconsidered his predictions. In a July 1987 *Medical World News,* Dr. Ellwood admitted that he thinks his theory is wrong, saying that the HMOs have not lived up to his expectations.

And Dr. Mittler explains why.

"Cost containment has in fact become *care* containment," he says.

What some HMO physicians believe may save the HMOs is their dedication to preventive medicine. R. Don Blim, M.D., a Kansas City pediatrician and president of Health Plan of Mid America, says that "prevention is being emphasized as an equal partner to treatment and may serve as a marketing tool for HMOs."

Many other physicians agree that for HMOs to be successful, preventive medicine is the key. Health maintenance organizations are successful when they maintain their members' health, not when members are ill. This is one reason follow-up visits, pre-illness screening and health education are a part of many HMO plans.

"With fee-for-service, patients are paying for things as they go along," Dr. Fallon says. "There is the tendency to not seek care until the illness is overwhelming."

Jan Martin, administrator of PrimeHealth's Wornall Road medical center, sums up PrimeHealth's objective.

"We feel that by educating you on how to take care of yourself, we can then **maintain** your health. That is the theory behind our HMO concept," she says.

If the predictions are right and HMO enrollment does continue to grow at a phenomenal rate, what does that mean for fee-for-service in Missouri?

Missouri physicians claim that traditional fee-for-service can meet the HMO challenge.

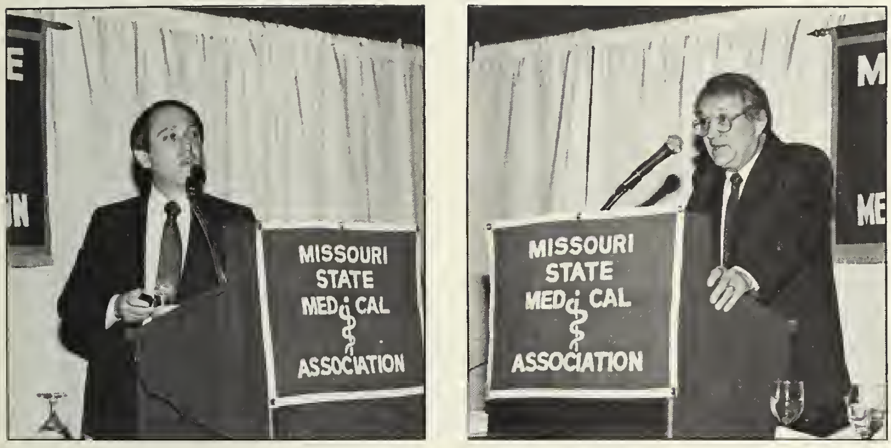
"I think fee-for-service has a future," says Dr. Singleton. "I do think that third party payers will look for ways to cut costs more. Physician's fees will be attacked."

Dr. Rubin agrees that although fee-for-service is fighting a tough battle against HMOs, it has a future because physicians are getting smart.

"I have to admit that a lot of doctors in St. Louis join HMOs," he says. "But I think they're making a big mistake and I think they know they're making a mistake too."

Dr. Barter says he thinks that managed health care is here to stay but admits that he isn't sure what form it will take in the next 10-15 years. He says the economics of the medical situation makes the future for fee-for-service look grim.

"I think traditional fee-for-service won't be here very long," he says. "The cost of medical care is skyrocketing to the point where people need



Brant Mittler, M.D. (left), president of Physicians Who Care, maintains that HMOs threaten to destroy the quality of medical care. In opposition, Paul Ellwood, M.D. (right), creator of the term HMO, says HMOs practice cost containment, not care containment.

third party insurors to cover them.

Dr. Blim cast another dissenting vote in the fee-for-service debate.

"Fee-for-service is a thing of the past, as are solo practitioners, except in rural areas," Dr. Blim says.

The theory expressing the strongest sentiment against the HMOs by private fee-for-service physicians is simple.

"Doctors ought to run their own business," says Dr. Peterson.

Missouri physicians cling to that desire as one way to combat the negatives they see in HMOs.

"Alternative delivery systems are here and they're not going to go away," says Dr. Blim. "And if you're going to have them, they should be run by doctors who have a role in determining how they (prepaid plans) are controlled and managed."

Dr. Hahn says that it may be true that HMOs and other alternate delivery systems are here and must be dealt with, but "I think everybody wishes they would just go away and never come back."

Whatever the final case may be, for now the jury is still out on the future of both alternative delivery systems and private fee-for-service. Clearly HMOs, as opposed to other prepaid systems, are becoming a more dominant force in the health care market in the metropolitan areas of Missouri with the rural areas not far behind. Already HMO membership in Missouri is on the rise. Currently 20 health maintenance organizations operate in the state with a total membership hovering around 785,566. This represents approximately 17.3% of the employed population of Missouri.

Yet many questions remain unanswered: questions concerning quality of care, overall cost savings, the status of the doctor/patient relationship, and the impact of the for-profit concept on the medical industry.

Today, health care is no longer viewed as a social good, but rather an economic good, according to many physicians. Even as the controversy in Missouri continues to heat up, new HMOs are springing up in the state. Missouri physicians, as their colleagues in the rest of the nation, are faced with the choices today that will decide the course medicine will take tomorrow. ■

Eagle-Barrett Syndrome

Results of Six Cases and Review

Margaret A. Alspaugh, Ph.D., and Clive Levine, M.D.
Columbia, Missouri

Eagle-Barrett syndrome remains the subject of unresolved etiologic debate. Six case reports and descriptions of the syndrome's effects illustrate the University of Missouri-Columbia's experience with the so-called prune-belly syndrome.

Eagle-Barrett syndrome or prune-belly syndrome (PBS), as it is commonly called, consists of the clinical triad of partial or complete absence of the abdominal wall muscles, undescended testes and an abnormality of the urinary system.[1-8] The diagnosis is based on physical examination, which reveals lack of abdominal wall musculature, undescended testes, and radiologic evidence of a major urinary tract abnormality. In the relaxed state, the abdominal wall has a characteristic wrinkled, prune-like appearance, with intestinal peristalsis readily visible through the thin abdominal wall. The syndrome occurs almost exclusively in males, in approximately one in 35,000-50,000 births, with rare occurrence in siblings.[4, 5] The condition may occur in an otherwise normal pregnancy but is often complicated by oligohydramnios, and as a result, some patients show features of Potter's syndrome. Potter's syndrome is defined as congenital bilateral renal agenesis with certain associated features that commonly include hypoplasia of the lungs, congenital heart defects, lower extremity malformations, abnormalities of the gastrointestinal canal, abnormalities of the genitalia and Potter's facies.[9, 10] Potter's facies is characterized by widely spaced eyes, prominent eye folds, flattened nose, recessed chin and large, heavily chondrified ears.

A wide spectrum of renal abnormalities occurs in PBS, including renal agenesis, all grades of renal dysplasia, hydronephrosis, dilated and tortuous ureters, megalocystis with an irregularly contoured bladder, patent urachus, megaurethra, tapering of the base of the bladder extending to the posterior urethra, urethral atresia, vesicoureteral reflux, prostatic maldevelopment and dilated utricle.[2, 5]

The hydronephrosis that is present in most cases appears to be developmental and is generally nonobstructive. The ultimate prognosis largely depends on the severity of the renal dysplasia. The diagnosis can usually be made on the basis of the ureter's characteristic appearance on urographic or abdominal ultrasound studies (Figure).

There are, in general, two categories of PBS patients. The first group have severe urinary tract obstruction which leads to death shortly after birth. These patients are likely to have concomitant features of Potter's syndrome. In the second group there is no urinary obstruction, and these patients generally will survive the neonatal period. They do have other abnormalities of the bladder, ureter and kidneys that may lead to chronic urinary problems, however. The prognosis depends on the severity of the renal abnormalities. Woodward and Turlock have proposed a more specific categorical classification that places patients into three groups, based on major characteristics which may aid in predicting prognosis.[5] Type I patients, who have a very poor prognosis, have oligohydramnios, pulmonary hypoplasia or pneumothorax. They may have urethral obstruction, patent urachus or club foot. Type II patients, who have a better prognosis, show the uropathy of the full-blown syndrome but have no immediate problem with survival. There is mild or unilateral renal dysplasia.

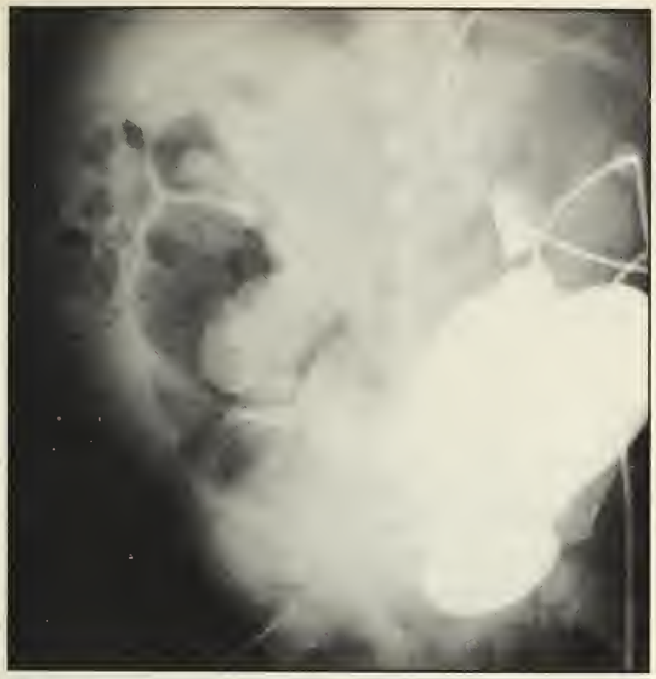


Figure. Nephrostogram of patient No. 3. Note the typically enlarged and tortuous left ureter with segmental variable dilation producing a sausage-link appearance, and lateral deviation of the mid-ureter. This appearance is characteristic of the prune-belly syndrome.

These patients are also prone to develop urinary tract infections and, ultimately, uremia. In Type III, external features of the syndrome may be mild or incomplete. The uropathy is less severe and renal function is stable.

The management of patients with PBS is complex, and treatment centers around the renal and pulmonary complications.

During 1986, six cases of PBS have been studied at the University of Missouri-Columbia Health Sciences Center. Descriptions of the diagnosis and clinical management of these cases follow.

Case Reports

Case 1. This male patient was diagnosed in utero by ultrasound at 38 weeks' gestation as having the PBS with features of Potter's syndrome. The patient was a full-term infant delivered by spontaneous vaginal breech delivery to a 27-year-old $G_4P_2A_1$ mother. The patient's renal abnormalities and associated conditions are listed in Tables 1 and 2. He developed respiratory distress shortly after birth. At one hour after birth, he died of cardiopulmonary failure due to pulmonary hypoplasia and pneumothoraces.

Case 2. This male patient was born by normal spontaneous vaginal delivery (NSVD) after 38 weeks' gestation to a $G_4P_3A_0$ mother. The diagnosis of PBS was confirmed at birth by ultrasound. Renal abnormalities and associated conditions are listed in the tables. At three months of age he was hospitalized twice for urinary tract infections, electrolyte abnormalities and increased BUN, and underwent a bilateral ureterostomy. He was treated with ampicillin. In addition to pyelonephritis and possible acute renal failure, the patient had Type IV renal tubular acidosis. At four months of age the patient was readmitted and again treated for a urinary tract infection. At six months of age, he was admitted with seizures. Despite treatment with phenobarbital, the seizures continued. He then went into cardiopulmonary arrest. Despite extensive therapy consisting of furosemide, lidocaine, procainamide, bretylium, calcium and dopamine, he died.

Case 3. This male patient was diagnosed by ultrasound in utero as having PBS. He was born by NSVD to a $G_1P_0A_0$ mother. A vesicostomy and nephrostomy (Figure) were performed immediately after birth. By 2½ years of age, he had developed recurrent urinary tract infections, hydronephrosis and chronic renal failure with electrolyte abnormalities. The specific renal abnormalities and associated conditions are listed in the tables. From 2½ years of age to present, the patient has been observed at the UMCHSC Birth Defects Clinic. He initially had growth failure, but at his latest visit had gained weight and had started walking. He understands the spoken word but does not speak. His chronological age is now four years, but developmentally he is estimated to be at 14 months of age. He is medically stable.

Case 4. This male patient was born by Caesarean section to a $G_1P_0A_0$ mother at 35 weeks' gestation. Renal abnormalities and associated conditions are listed in the tables. The patient developed severe respiratory distress secondary to pneumothorax, bronchopneumonia and pneumomediastinum. He died nine hours after birth of respiratory failure.

Case 5. This male patient was diagnosed with PBS at birth. He was born at full term by NSVD to a $G_3P_2A_0$ mother. Renal abnormalities and associated conditions are listed in Tables 1 and 2. He was last seen at five months of age. He had not received any medications and was medically stable, but is considered to have a poor prognosis.

Case 6. This male patient was diagnosed at birth as having PBS. He had a NSVD. Renal abnormalities and associated conditions are listed in the tables. Between birth and three months of age, he developed progressive renal failure. During that period, he underwent surgery twice for urinary obstruction and renal failure. At three months of age he was placed on home peritoneal dialysis. At 14 months of age he was admitted for treatment of electrolyte abnormalities and peritonitis. He was subsequently observed by the UMCHSC Birth Defects Clinic. At present he is medically stable at 23 months of age but is developmentally and growth-delayed. He is also considered to have a poor prognosis.

Discussion

All of our patients had rather extensive renal abnormalities. According to the classification of Wood-

Table 1

Renal Radiologic Abnormalities

Case Number	*Dilated Ureters*	*Hydronephrosis*	*Bladder Abnormalities*	*Polycystic Kidneys*	*Decreased Renal Function*	*Decrease in Kidney Size*
1	+	−	+	−	−	−
2	+	+	+	+	+	−
3	+	+	+	−	+	−
4	+	+	−	−	−	−
5	+	+	+	−	+	+
6	+	−	−	+	+	+

ward,[5] two patients could be classified as having severe Type I disease, and four with moderate Type II disease. The two Type I patients lived less than nine hours. A third patient with Type II disease died at six months of age. This agrees with the findings of others that 50% of PBS patients die before two years of age.[11] Our case number is small, but it shows a 50% fatality frequency compared to a recent study of 25 cases showing only 12% fatalities.[12]

Complications in our patients included recurrent urinary tract infections, electrolyte abnormalities causing cardiac arrhythmias, seizures and subarachnoid hemorrhage, septicemia, pneumothorax, pneumomediastinum, pneumonia and recurrent peritonitis.

Three patients required surgical treatment. Two patients had vesicostomies; one of these also had a Tinckhoff catheter placed for hemodialysis. The third patient had a ureterostomy.

Since 1984 at least 72 new cases of PBS have been described.[13, 14-28] Only one of these patients was female[25] and only one was a black infant.[20] The fully developed syndrome is seen only in males; females with the syndrome usually have milder urinary and muscular deformities than males.

Prior reviews have discussed the etiology of PBS.[3, 5] Two theories have been advanced. One hypothesis suggests that obstruction and dilation of the urinary tract during early development causes disruption of the abdominal musculature, or alternatively, a primary abdominal wall deficiency and accompanying lack of normal pressure on the developing urinary tract causes the urinary tract dilation. The second theory proposes the cause to be a generalized mesodermal defect involving the para-axial intermediate and lateral plates of the first lumbar myotome early in gestation. Such a defect in the para-axial mesoderm would account for the abdominal muscle deficiency; a defect in the intermediate mesoderm would explain the renal abnormalities, and a defect of the lateral plate would result in abnormalities of the ureters, bladder and gubernaculum. The controversy remains. However, three new studies have presented data that suggest simple distension disrupts the musculature,[23, 26, 28] whereas no new reports have supported the theory of a mesodermal defect. Some consider it a genetic disorder; however, chromosomal analysis of affected infants is usually normal.[29, 30] Of final interest is a report of two cases of PBS in association with trisomy 21.[16] Apparently chromosomal abnormalities have been reported in only two other studies.[31-32]

In the past it has been suggested that orchiopexy should be performed on patients with an otherwise good prognosis. However, a recent report of seven cases suggests the procedure may not be necessary. Histological examinations in the reported cases showed no spermatogonia were present in any of these testes.[33] The danger of malignant change in the undescended testis is still much increased if the individual should survive into adulthood. The risk is probably not changed with orchiopexy.

Conclusion

The renal abnormalities in our six PBS patients were quite extensive. Six patients had dilated ureters, four had decreased renal function and hydronephrosis, three had abnormalities of the bladder, and two had polycystic kidney disease or a decrease in kidney size. Associated conditions included Potter's syndrome in two, talipes equinovarus in two, with hydrocephalus, hypothyroidism, renal tubular acidosis, median raphe cyst of the penis, heart murmur, periumbilical hernia, in utero leg amputations secondary to entrapment bands, urachal inclusion cyst and pectus excavatum each seen in one. Five patients demonstrated decreased muscle tone and two displayed decreased deep tendon reflexes. Three have since died. Of the three remaining patients, the two older children have chronic renal failure but are medically stable. The third patient is only two months old. He is presently stable but has decreased kidney function and a poor prognosis.

Table 2

Associated Conditions

	Potter's Syndrome					
Case Number	*Atresia of Urethra*	*Renal Agenesis*	*Pulmonary Hypoplasia*	*Club Foot*	*Neurologic Abnormalities*	*Other*
1	+	–	+	+	+	breech birth
2	–	–	–	–	–	Type IV renal tubular acidosis, median raphe cyst, right leg amputation in utero
3	–	–	–	–	+	pectus excavatum
4	–	+	+	+	+	
5	–	–	–	–	+	Potter's facies
6	–	–	–	–	+	congenital hip dislocation, hydrocephalus, hypothyroidism, periumbilical hernia, heart murmur

References

1. Swischuk LE: Miscellaneous urinary tract abnormalities, in *Radiology of the Newborn and Young Infant*, ed 2. Baltimore, Williams & Wilkins, 1980, pp 385-386.
2. Kirks DR: Common specific abnormalities, in *Practical Pediatric Imaging. Diagnostic Radiology of Infants and Children*. Boston, Little-Brown & Co, 1984, p 732.
3. Franklen EA: Abdomen and peritoneal cavity, in *Gastrointestinal Radiology in Pediatrics*. San Francisco, Harper & Row, 1974, pp 222-223.
4. Myers GH, Utz DC: Abnormalities of the genitourinary tract, in *Emmett's Clinical Urology: An Atlas and Textbook of Roentgenologic Diagnosis*. Philadelphia, WB Saunders Co, 1977, vol 4, pp 777-779.
5. Woodward JR, Turlock TS: Prune-belly syndrome, in Walsh PC, Gittes RF, Perlmutter AD, Stamey TA (eds): *Campbell's Urology*, ed 5. Philadelphia, WB Saunders Co, 1986, pp 2159-2177.
6. Woodward JR: The prune-belly syndrome. *Urologic Clin N Amer* 1978;5:75.
7. Shapiro RL: Defects in parietes, in *Clinical Radiology of the Pediatric Abdomen and Gastrointestinal Tract*. Baltimore, University Park Press, 1976, pp 307-308.
8. Farinella R: Prune-belly syndrome. *Am Fam Phys* 1982;5:125.
9. Potter EL: Bilateral renal agenesis. *J Ped* 1946;29:68.
10. Potter EL: Bilateral absence of ureters and kidneys. A report of 50 cases. *Obstet & Gynecol* 1965;25:3.
11. Emmeth JL, Witten DM: Anomalies of the genitourinary tract, in *Clinical Urology: An Atlas and Textbook of Roentgenologic Diagnosis*. Philadelphia, WB Saunders Co, 1971, pp 1569-1572.
12. Geary DF, MacLucky IB, Churchill BM, et al: A broader spectrum of abnormalities in prune-belly syndrome. *J Urol* 1986;135:234.
13. Feige A, Fiedler K, Rempen A, et al: Prenatal diagnosis of prune-belly syndrome occurring in siblings in two consecutive pregnancies. *Z Gerburtshilfe Perinatal* 1984;188:239.
14. Ehrlich RM, Lesavoy MR, Fine RN: Total abdominal wall reconstruction in the prune-belly syndrome. *J Urol* 1986;136:282.
15. Spinelli C, Marconi A, Migliori E, et al: Complete prune-belly syndrome: Necroscopic study. Presentation of two cases. *Minerva Pediatr* 1986;38(8):267.
16. Amacker EA, Grass FS, Hickey DE, et al: An association of prune-belly anomaly with trisomy 21. *Am J Med Genet* 1986;23(4):919.
17. Tada T, Wakabayashi T, Inagawa A, et al: Intrauterine closure of the ductus arteriosus in association with prune-belly syndrome. *Hum Pathol* 1985;16(9):952.
18. Bundgaard N, Petersen PL, Friedrich U: The prune-belly syndrome. *Ugeskr Laeger* 1985;147(23):1857.
19. Mortensen PH, Johnson HW, Coleman GU, et al: Megalourethra. *J Urol* 1985;134(2):358.
20. Short KL, Groff DB, Cook L: The concomitant presence of gastroschisis and prune-belly syndrome in a twin. *J Pediatr Surg* 1985;20(2):186.
21. Van den Berg H, Abbad FC, Post E, et al: Prune-belly syndrome. *Tijdschr Kindergeneeskd* 1985;53(1):34.
22. Slawek X, Popow J, Slawek S, et al: Prune-belly syndrome in a newborn infant. *Wiad Lek* 1984;37(8):644.
23. Nakayama DK, Harrison MR, Chinn DH, et al. The pathogenesis of prune-belly. *Am J Dis Child* 1984;138(9):834.
24. Moerman P, Fryns JP, Goodeeris P: Prune-belly syndrome, a secondary urethral functional obstruction due to prostatic hypoplasia. *J Genet Hum* 1984;32(2):141.
25. Sierra Sirvent JF, Martinez Escribano MP, Olivan Del Cacho MJ, et al: Prune-belly syndrome in a female. *An Esp Pediatr* 1984;20(2):135.
26. Burton BK, Dillard RG: Brief clinical report: Prune-belly syndrome: Observations supporting the hypothesis of abdominal overdistention. *Am J Med Genet* 1984;17(3):669.
27. Adeyokunnu AA, Familusi JB: Prune-belly syndrome in two siblings and a first cousin. *Am J Dis Child* 1982;136:23.
28. Garlinger P, Ott J: Prune-belly syndrome, possible genetic implications. *Birth Defects* 1974;10:173.
29. Moerman P, Fryns JP, Goodeeris P, et al: Pathogenesis of the prune-belly syndrome: a functional urethral obstruction caused by prostatic hypoplasia. *Pediatrics* 1984;73(4):470.
30. Halbrecht I, Komlos L, Shabtal F: Prune-belly syndrome with chromosomal fragment. *Am J Dis Child* 1972;123:518.
31. Harley LM, Chen Y, Rattner WH: Prune-belly syndrome. *J Urol* 1972;108:174.
32. Lubinsky M, Koyle K, Trunca C: The association of prune-belly with Turner's syndrome. *Am J Dis Child* 1980;134:1171.
33. Uehling DT, Zadina SP, Gilbert E: Testicular histology in triad syndrome. *Urology* 1984;23(4):364.

The Authors

MARGARET A. ALSPAUGH, Ph.D.
CLIVE LEVINE, M.D.

Dr. Alspaugh is a medical student at the University of Missouri-Columbia School of Medicine, and Dr. Levine is an associate professor of radiology and child health at the medical school.

Reprints

Clive Levine, M.D.
Associate Professor
Department of Radiology DC069.10
University of Missouri-Columbia
Health Sciences Center
1 Hospital Drive
Columbia, Missouri 65212

Extracardiac Malignancies Producing Tamponade

Maria J. Brazil, M.D., John P. Merjavy, M.D., and John E. Codd, M.D.
St. Louis, Missouri

Cardiac tamponade is a recognized occurrence in the patient with metastatic carcinoma. As a presenting symptom, however, tamponade is less common. A case report illustrates the importance of considering malignancy in the search for the cause of cardiac tamponade, and the controversy surrounding its treatment.

Metastatic involvement of the heart in a patient with widely disseminated carcinoma is a well-recognized occurrence in autopsy series. Antemortem diagnosis of cardiac involvement is less common, and cardiac tamponade as the initial presentation of an extracardiac malignancy is exceedingly rare. There are 47 cases reported in the English literature, of which the majority were caused by bronchogenic carcinoma.[2-6] The other reported malignancies have been of the stomach, pancreas, kidney, colon, ovary, breast, and thyroid. Other reported conditions are lymphoma, leukemia, and rhabdomyosarcoma.[7-12] The diagnosis, which is frequently overlooked, is made by pericardial biopsy and cytologic examination of the pericardial fluid. A brief, directed search for the primary malignancy is also warranted.

Treatment of malignant cardiac tamponade is controversial. Nonsurgical management includes radiotherapy, systemic chemotherapy, or pericardiocentesis followed by instillation of a chemotherapeutic or irritating substance into the pericardial space. Surgical management has included pericardial window procedures or pericardiectomy. Prognosis depends on histologic evaluation of the tumor. In certain patients with a malignant effusion, palliation is best achieved by pericardiectomy.[2, 13]

Case Report

A 56-year-old woman had been in excellent health until three weeks prior to admission when she developed abdominal tenderness and cough. Her physician diagnosed bronchitis, and antibiotic therapy was started. She underwent a barium enema examination with negative results. Medical history was significant for an 80 pack-year smoking history.

On admission her blood pressure was 108/72 mmHg and respirations 32 per minute. She was cyanotic and in obvious respiratory distress. The jugular veins were distended to the angle of the mandible when the patient was placed at a 45° angle. Heart sounds were distant but no pericardial rub was heard. Auscultation of the right lung revealed decreased breath sounds. Percussion size of the liver was 12 cm below the costal margin.

The SGOT was 1900 IU/L and lactic dehydrogenase (LDH) was 1032 IU/L. Chest roentgenogram showed an enlarged heart and a right pleural effusion. An echocardiogram showed a large pericardial effusion and severe limiting of right ventricular function.

Pericardiocentesis yielded 550 ml of bloody fluid. Following removal of the pericardial fluid, the patient became less tachypneic. Intracardiac pressures in the right atrium were 11 mmHg; pulmonary artery 36/16 mmHg; and pulmonary capillary wedge of 16 mmHg. Cardiac output was 5.2 L/min.

Echocardiogram the following morning revealed reaccumulation of the effusion. Therefore, a pericardial window procedure was performed. Cytologic examination of the pericardial fluid and pericardial biopsy were done. Because of roentgenographic findings of right pleural effusion, a bronchoscopic examination was also performed. Abnormalities were noted in the mucosa of the right upper lobe bronchus. Examination of the pericardial fluid and brushings from the right upper lobe bronchus revealed poorly differentiated adenocarcinoma. Pathological examination of the frozen section of the pericardium was negative. Permanent section studies, however, showed adenocarcinoma.

In the immediate postoperative period, the patient required inotropic support. Her recovery was otherwise uncomplicated.

Metastasis to a rib was discovered. Chemotherapy was begun prior to her discharge.

Discussion

Cardiac tamponade as the presenting symptom of an extracardiac malignancy is an uncommon occurrence. Fraser et al reviewed 26 cases, adding three of their own.[1] In a review of the literature we found an additional 18 cases.[3-10, 12] The most common malignancy is bronchogenic carcinoma. Other malignancies have involved the stomach, kidney, thyroid, ovary, breast, colon, and pancreas. Also reported were Hodgkins lymphoma, non-Hodgkins lymphoma, rhabdomyosarcoma, lymphosarcoma, leukemia, and five cases in which the primary site was unknown.

Although clinical recognition of cardiac tamponade presents no great difficulty, discovery of the cause may be more problematic. The incidence of cardiac tamponade as the end result of a widely disseminated, identified carcinoma is quite common, occurring in 2%-21% if cases.[1, 14] When tamponade due to a pericardial effusion is the presenting symptom, however, neoplasm may not be considered in the differential diagnosis. Yet neoplastic disease should be considered, even in the absence of clear evidence of a malignant lesion, because tumors causing cardiac tamponade are sometimes small, with an undetectable primary site.

Diagnosis is made by pericardial biopsy and cytologic examination of the fluid. The importance of examining the pericardial fluid has been emphasized by several authors.[2, 5] Pericardial biopsy results may be negative while cytological examination of the fluid proves diagnostic of malignancy. Because lymphatic vessels are more abundant in the epicardium than in the pericardial sac, a biopsy may miss areas of lymphatic permeation. Cytological examination is diagnostic in more than 80% of cases.[2, 15]

Metastasis to the heart is explained by retrograde dissemination of tumor cells from involved mediastinal lymph nodes.[2] The subendocardial plexus drains into a subepicardial plexus. These unite into branches that follow coronary vessels, which in turn drain into the mediastinal nodes. It is the retrograde dissemination of tumor cells through this system that causes pericardial involvement.

Treatment of malignant cardiac effusion is somewhat controversial. The goal of treatment should be to relieve the effusion and prevent its recurrence. To accomplish this, various techniques of medical and surgical management have been advocated.

Conservative management consists of radiotherapy, systemic chemotherapy, or pericardiocentesis with intrapericardial instillation of chemotherapeutic or irritating agents.[16-20] Smith et al described a series of patients in which four out of five treated with pericardiocentesis and instillation of a chemotherapeutic agent, triethylenethiophosphoramide, nitrogen mustard or quinalrine agent, had disappearance of cardiac signs and symptoms.[17]

Pericardiocentesis followed by intrapericardial instillation of tetracycline has been advocated by some.[18] In a series of 33 patients, 30 gained relief from their effusive symptoms.

Other centers believe pericardiocentesis is both ineffective and unproductive in establishing a diagnosis and preventing recurrence of the effusion.[21] They do feel, however, that pericardiocentesis may be used as an emergency decompressive procedure, allowing time to plan a definitive surgical treatment.

Surgical therapy consists of drainage and pericardial resection. The goal of resection is to obtain tissue for microscopic studies and to prevent recurrence of the effusion. The extent of pericardial resection needed is controversial.

Minimal resection via the subxiphoid approach (pericardial window) is advocated by those who feel the low morbidity and mortality, along with the technical ease are the more important considerations.[21-24] Others, however, maintain that a more extensive resection is needed to prevent recurrence of the effusion.

Advocates of complete or partial pericardiectomy feel that development of late postoperative complications is directly related to the amount of pericardium remaining. Piehler et al found reaccumulation of fluid, postoperative pericardial restriction, and the need for reoperation occurred significantly more often in patients who had undergone pericardial window procedures than in those who had more extensive resection.[13] They concluded that for patients who are in good general condition, complete pericardiectomy is the procedure of choice. For debilitated patients, subxiphoid pericardial window placement, with resection of the largest accessible portion of the pericardium, is appropriate. It must be recognized, however, that complications related to the remaining pericardium may occur.

Survival following onset of cardiac tamponade due to malignancy is dismal. In Fraser's review of cases, survival ranged from a few days to 14 months, with one long-term survivor of four years. Mean survival was longer (5½ months vs. 7 days) in patients who underwent pericardiectomies than in those who received conservative treatment.

In conclusion, malignancy must be part of the differential diagnosis in a patient with cardiac tamponade. Diagnosis is made by pericardial biopsy and examination of pericardial fluid. Treatment of the effusion is controversial, but may employ radiotherapy, chemotherapy, pericardiocentesis, or surgical resection of the pericardium via subxiphoid or transthoracic approach.

References

1. Cohen GU, Peery TM, Evans JM: Neoplastic invasion of the heart and pericardium. *Ann Int Med* 1955;42:1238-1245.
2. Fraser RS, Viloria JB, Wang NS: Cardiac tamponade as a presentation of extracardiac malignancy. *Cancer* 1980;45:1697-1704.
3. Van Schil P, Peeters P, Seghers K: Cardiac tamponade as the first manifestation of bronchogenic carcinoma. *Int Surg* 1985;70(1):75-77.
4. Haskell RJ, French WJ: Cardiac tamponade as the initial presentation of malignancy. *Chest* 1985;88:70-73.
5. Chen KT: Extracardiac malignancy presenting with cardiac tamponade. *J Surg Oncol* 1983;23:167-168.
6. Appelgrist P, Maamies T, Grohn P: Emergency pericardiotomy as primary diagnostic and therapeutic procedure in malignant pericardial tamponade; Report of three cases and review of the literature. *J Surg Oncol* 1982;21:18-22.
7. Almagro UA, Caya JG, Remeniuk E: Cardiac tamponade due to malignant pericardial effusion in breast cancer: A case report. *Cancer* 1982;49:1929-1933.
8. Almagro UA, Remenuik E: Non-Hodgkins lymphoma presenting as malignant pericardial effusion and cardiac tamponade. *Human Path* 1985;16(3):315-317.
9. Kacenelenbogen R, Devriendt J, De Reuck M, et al: Cardiac tamponade as first manifestation of colonic cancer. *Arch Intern Med* 1984;144:622-623.
10. Chia BL, DaCosta JL, Ransome GA: Cardiac tamponade due to leukaemic pericardial effusion. *Thorax* 1973;28:657-658.
11. Wendkos MH: Leucemic Pericarditis. *Am Heart J* 1941;22:417.
12. Shinde SR, Shaha PB, Prabhakar SA: Cardiac tamponade as the only initial feature of malignancy: A case report and review of the literature. *J Surg Oncol* 1986;32:96-99.
13. Piehler JM, Pluth JR, Schaff HV, et al: Surgical management of effusive pericardial disease. *J Thorac Cardiovasc Surg* 1985;90:506-516.
14. Goldman BS, Pearson FG: Malignant pericardial effusion. *Can J Surg* 1965;8:157-161.
15. Zipf RE, Johnston WW: The role of cytology in the evaluation of pericardial effusions. *Chest* 1972;62(5):593-596.
16. Primrose WR, Clee MD, Johnston RN: Malignant pericardial effusion managed with vinblastine. *Clin Oncology* 1983;9:67-70.
17. Smith FE, Lane M, Hudgins PT: Conservative management of malignant pericardial effusion. *Cancer* 1974;33(1):47-57.
18. Davis S, Rambotti P, Gregnani F: Intrapericardial tetracycline sclerosis in the treatment of malignant pericardial effusion: An analysis of thirty-three cases. *J Clin Oncology* 1984;2(6):631-636.
19. Markiewicz W, Borovik R, Ecker S: Cardiac tamponade in medical patients' treatment and prognosis in the endocardiographic era. *Am Heart J* 1986;111(6):1138-1142.
20. Theologides A: Neoplastic cardiac tamponade. *Sem Oncol* 1978;5(2):181-192.
21. Little AG, Kremser PC, Wade JL, et al: Operation for diagnosis and treatment of pericardial effusion. *Surgery* 1984;96(4):738-744.
22. Hankins JR, Satterfield JR, Aisner J, et al: Pericardial window for malignant pericardial effusion. *Ann Thoracic Surg* 1980;30(5):465-471.
23. Osuch JR, Khandekar JD, Fry WA: Emergency subxiphoid pericardial decompression for malignant pericardial effusion. *Am Surg* 1985;51(6):298-300.
24. Hill GJ, Cohen BI: Pleural pericardial window for palliation of cardiac tamponade due to cancer. *Cancer* 1970;26(1):81-93.

The Authors

MARIA J. BRAZIL, M.D.
JOHN P. MERJAVY, M.D.
JOHN E. CODD, M.D.

The authors are from DePaul Health Center, St. Louis, Missouri.

Reprints

John E. Codd, M.D.
DePaul Health Center
12255 DePaul Drive, Suite 830
Bridgeton, Missouri 63044

Comparison of Non-Invasive Carotid Tests with Angiography in Assessing Carotid Stenosis

H. Richard McFarland, M.D., and Joe A. Pinkerton, Jr., M.D.
Kansas City, Missouri

Carotid angiography continues to be the mainstay in evaluating arteriosclerotic stenoses. However, non-invasive techniques are less risky and less costly. The authors found non-invasive ultrasonic carotid studies compared favorably with angiography in detecting stenosis, but two indirect methods proved less accurate. They recommend that these tests be used only in conjunction with ultrasound.

In this study, we compared two indirect, non-invasive tests and one direct, non-invasive test for assessing carotid stenosis, with selective bilateral carotid angiography. The indirect tests, ocular pneumoplethysmography (OPG) and Doppler ophthalmic tests (DOT), evaluate the distal circulatory beds of the carotid artery. The direct test, carotid duplex ultrasound (US), evaluates the common carotid artery and its bifurcation.[1, 2] Both types of examination, direct and indirect, may be performed on outpatients and are non-invasive, safe and relatively inexpensive. Conversely, conventional angiography is performed on inpatients, is invasive, and entails greater risk and expense.

Because bilateral carotid angiography provides the clearest delineation of both extra- and intracranial vessels, many surgeons insist on having these radiographs before performing carotid endarterectomy. Accordingly, angiography was chosen as the "gold standard" by which US and OPG-DOT were to be compared in this study. The issue we examined was the relative accuracy of these non-invasive techniques in evaluating stenoses of the common and internal carotid arteries.

Materials and Methods

At St. Luke's Hospital, Kansas City, 100 consecutive patients had bilateral selective carotid arteriograms and bilateral US performed concurrently. With the 200 US procedures, there were 126 OPG and 154 DOT performed. Patient age ranged from 33 to 89 years with a mean age of 66 years; 63% were men and 37% were women. Indications for angiography were: transient ischemic attack — 72%, reversible ischemic deficit or stroke — 15%, and asymptomatic bruit — 13%. In every case, the non-invasive studies were done before the arteriogram or without knowledge of the arteriogram results. In nearly every instance, the non-invasive test was the patient's first, and was immediately followed by angiography. Patients who had had previous carotid endarterectomy were excluded.

The US procedure included two separate techniques: B mode real time carotid imaging, and pulsed wave Doppler signal analysis. An Advanced Technology Laboratory (ATL) Mark 600 Fast Fourier Doppler Flow Analyzer and Imager were used to generate an image of the artery and to position the pulsed Doppler beam in the lumen of the artery. Areas examined included the common carotid artery, the carotid bulb, and the proximal external and internal carotid artery. All US examinations were performed by one of three experienced medical sonographers. The US examination was recorded on videotape and interpreted by one of two physicians experienced in vascular diagnostic sonography. Doppler analysis was interpreted as abnormal when there was no flow detectable (indicating occlusion) or when there was a Doppler systolic peak frequency greater than 4 KHz with spectral broadening (indicative of 50% stenosis or greater).[3, 4] Real time US was interpreted as showing occlusion whenever there was no lumen discernable and no appreciable pulsation visible. When Doppler shifts were approximately 4 KHz, real time ultrasound was used to determine whether the stenosis was greater or lesser than 50%. The results were graded normal (0%-49% stenosis) or abnormal (50%-100% stenosis), corresponding to a stenosis of 50% or greater of vessel diameter or 75% or greater cross-sectional area of stenosis. These two groups were graded true (correct) or false (incorrect) depending upon their agreement with arteriography.[5, 6] Occluded vessels were analyzed separately.

The ocular pneumoplethysmography (OPG) tracings were obtained according to the method of Gee.[7] The results were graded normal (0%-49% stenosis) or abnormal (50%-100% stenosis), according to his criteria, then compared to arteriography. Contraindications for the examination included: eye infection, glaucoma, retinal detachment, allergy to epoxy materials or local anesthetics, recent eye surgery, recent eye injury, or diabetic retinopathy. Exceptions were made only when approved by an ophthalmologist.

The Doppler ophthalmic test (DOT) was performed with a Parks directional Doppler flowmeter by the method of Brockenbrough.[8, 9] Velocity was monitored in the supraorbital artery and after a stable tracing was obtained, the superficial temporal artery was manually compressed. Augmentation of supraorbital artery flow after superficial temporal artery compression or no significant change in flow was considered normal. Diminution or obliteration of flow or a reversal of direction of flow was considered abnormal. These two groups were compared to arteriography in a similar manner to OPG.

All patients routinely received high quality cerebrovascular angiography of the aortic arch and brachiocephalic and intracranial vessels using either conventional biplanar techniques or intra-arterial digital subtraction angiography (DSA). Following a transfemoral guidewire approach with the advancement of 5.5 French catheter into the ascending aorta, DSA brachiocephalic images were recorded at a rate of one per second for 10 seconds during the injection of 40 ml of 30% diatrizoate meglumine (Renografin 60-N or Hypaque 60-N) by pressure injector at 20 ml per second. The catheter was then advanced into the right and left common carotid arteries, where frontal and lateral x-rays were made. Arteriograms were independently interpreted by neuroradiologists and classified based on percent of projected lumen diameter as 0%-49% stenosis, 50%-99% stenosis, and occlusion. The degree of stenosis was determined by measuring the width of the lumen at the narrowest point (A) and the diameter of the uniform portion of the artery above the stenosis (B). The difference between these two values was divided by the larger measurement to compute the percentage of narrowing.[10] Arteriography results were considered the gold standard against which US, OPG, and DOT were compared. Statistical indices were obtained for percent sensitivity, specificity, false positive, false negative, and total accuracy. Sensitivity of a test meant the ability of a test to find disease when disease was present. Specificity of a test meant the ability of a test to indicate no disease when there was no disease.[11]

Results

The findings of US concurred with those of arteriography in 100% of the cases with greater than 50% stenosis (by angiography), and in 84% of the cases with less than 50% stenosis. The sensitivity of US was 100% with no false negatives, and the specificity was 84% with 17% false positives. Ultrasound total accuracy was 91% compared to angiography. When OPG and DOT were compared with arteriography, the total accuracy was 83% and 73% respectively. OPG and DOT had high specificities of 97% and 94%, but low sensitivities of 62% and 49% respectively. (Table 1)

Table 1

Agreement of Ultrasound (US), Ocular Pneumoplethysmography (OPG) and Doppler Ophthalmic Test (DOT) with Angiography in 200 Carotid Arteries Evaluated for Stenosis of ± 50%

	US (N=200)	*OPG (N=126)*	*DOT (N=154)*
Sensitivity	100%	62%	49%
Specificity	84%	97%	94%
False Positive	17%	6%	13%
False Negative	0%	22%	31%
Total Accuracy	91%	83%	73%

There were 11 occluded carotid arteries found by arteriography. Both OPG and DOT were reported as abnormal in all 11 vessels. Ultrasound revealed 50% or greater stenosis in all 11 vessels and correctly identified occlusion in 10 of 11 vessels, for 91% accuracy. (Table 2)

Discussion

Our salient finding was the close agreement between ultrasound and selective carotid angiography for the diagnosis of extracranial carotid atherosclerosis causing 50% or greater stenosis or occlusion. Other authors have reported good agreement between US and angiography of the common and internal carotid arteries for the diagnosis of significant (greater than 50%) stenosis: Zwiebel[3] (93%), Keagy[5] (91%), Lo[12]

Table 2

Degree of Stenosis by Ultrasound and Angiography in 200 Carotid Arteries

	Angiography			
Ultrasound	*0-49%*	*50-99%*	*100%*	*Total*
0-49%	94	0	0	94
50-99%	18	77	1	96
100%	0	0	10	10
TOTAL	112	77	11	200

(95%), and Eikelboom[13] (95%), but there are disclaimers.[14] Attempts to compare US with arteriography using endarterectomized pathological specimens are laudable but flawed.[15-17] The number of specimens are too few for significant statistical analysis, and the studies must be selective since only those specimens which are removed reasonably intact are studied. Estimation of stenosis after the artery is opened is difficult and crude. Serial sectioning of the resected artery for accurate measurement of lumen diameter requires an intact specimen and does not reproduce the lumen of the vessel under a pressure pulse as in vivo. Nevertheless, US and angiography compare reasonably well in operated specimens.

Ultrasound was remarkably sensitive in detecting significant stenosis with no false negatives. Ultrasound specificity was 84% with 17% false positive. The latter discrepancy may be due to undercalculation of vessel stenosis by arteriography rather than overestimation of patency by US. Conventional arteriography tends to underestimate the degree of atherosclerotic stenosis.[15, 18] If ultrasound has a weakness, it is in overestimating disease in mildly atherosclerotic arteries.[13]

Medical side effects of ultrasound testing were rare and brief. Ultrasound probe pressure on the carotid bulb induced an occasional cardiac arrhythmia, but every test was satisfactorily completed. Headaches following OPG and DOT, from pressure on the globe or from compressing the superficial temporal artery, were mild and infrequent. Following OPG a few patients had a conjunctivitis which was rarely painful.

Although there were no technical or patient failures in the 200 US arteries tested, only 154 DOT and 126 OPGs were obtained. The DOT failures were due to inability to find a suitable supraorbital pulse, lack of adequate patient cooperation, and temporary failure of equipment. Of the 74 OPGs not obtained, most failures were due to ophthalmological contraindications.

In comparing OPG and DOT to angiography for stenoses of 50% or greater, the sensitivity and total accuracy of the indirect tests were disappointing. In part this was expected, since the smaller the carotid lumen, the more accurate the results. A lesion that causes distal hemodynamic change is one that reduces lumen area about 80% and lumen diameter about 60% (a residual lumen of 2 mm-2.5 mm). The indirect tests are applicable when the residual lumen diameter is 0 mm-2.5 mm.[2] Side effects, technical failure, and less accurate correlation with angiography limit the clinical usefulness of indirect examinations. They do have merit when used with US in confirming high-grade extracranial stenoses, and in revealing severe stenosis of the distal internal carotid or ophthalmic artery. For these reasons we recommend that at least one indirect test be performed with US. In detecting hemodynamically significant atherosclerosis of the extracranial carotid arteries, ultrasound is the principal non-invasive test.

References

1. Ackerman RH, D'Alton JG, Davis KR, et al: Complementary roles of a non-invasive test battery and DSA in evaluating carotid artery disease. *AJNR* 1983;4:757-758.
2. Ackerman RH: Non-invasive carotid evaluation. *Stroke* 1980;11:675-678.
3. Zwiebel WJ, Strother CM, Austin CW, et al: Comparison of ultrasound and IV-DSA for carotid evaluation. *Stroke* 1985;16:633-643.
4. Krause H, Segard M, Carey P, et al: Doppler power frequency spectrum analysis in the diagnosis of carotid artery disease. *Stroke* 1984;15:351-358.
5. Keagy BA, Pharr WF, Thomas D, et al: Comparison of oculoplethysmography/carotid phonoangiography with duplex scan/spectral analysis in the detection of carotid artery stenosis. *Stroke* 1982;13:43-45.
6. Blackwell E, Merory J, Toole JF, et al: Doppler ultrasound scanning of carotid bifurcation. *Arch Neurol* 1977;34:145-148.
7. Gee W: Carotid physiology with ocular pneumoplethysmography. *Stroke* 1982;13:666-673.
8. Brockenbrough EC: Screening for the prevention of stroke. Use of Doppler flowmeter. Parles Electronics, Beaverton, Ore, 1970.
9. Otis SM, Smith RA, Dalessio DJ, et al: Ineffectiveness of the Doppler ophthalmic test (DOT) in post endarterectomy evaluation. *Stroke* 1979;10:396-399.
10. Alter M, Kieffer S, Resch J, et al: Cerebral infarction. *Neurol* 1972;22:590-602.
11. Lambeth A: Statistics in the vascular laboratory. *Bruit* 1979;3:9-10.
12. Lo LY, Ford CS, McKinney WM, et al: Asymptomatic bruit, carotid and vertebrobasilar transient ischemic attacks — A clinical and ultrasonic correlation. *Stroke* 1986;17:65-68.
13. Eikelboom BC, Ackerstaff RGA, Ludvig JW, et al: Digital video subtraction angiography and duplex scanning in assessment of carotid artery disease: Comparison with conventional angiography. *Surgery* 1983;94:821-825.
14. Anderson D, Loewenson R, Yock D, et al: B mode real time carotid ultrasound imaging. Correlation with angiography. *Arch Neurol* 1983;40:484-488.
15. Fischer GG, Anderson DC, Farber R, et al: Prediction of carotid disease by ultrasound and digital subtraction angiography. *Arch Neurol* 1985;42:224-227.
16. Farber R, Bromer M, Anderson D, et al: B mode real time ultrasonic carotid imaging: Impact on decision making and prediction of surgical findings. *Neurol* 1984;34:541-544.
17. Johnson JM, Ansel AL, Morgan S, et al: Ultrasonic screening for evaluation and follow up of carotid artery ulceration. *Am J Surg* 1982;144:614-618.
18. Blankenhorn DH, Curry PJ: The accuracy of arteriography and ultrasound imaging for arteriosclerosis measurement. *Arch Path Lab Med* 1982;106:483-489.

The Authors

H. RICHARD McFARLAND, M.D.
JOE A. PINKERTON, JR., M.D.

Dr. McFarland is from the Department of Neuroscience (Neurology) and Dr. Pinkerton is from the Department of Surgery at St. Luke's Hospital, Kansas City.

Reprints

H. Richard McFarland, M.D.
4320 Wornall Road
Suite 620
Kansas City, Missouri 64111

Nikolaus R. McFarland assisted with data analysis, and Dan Hageman performed most of the ultrasound studies.

Information for Contributors

Articles are accepted for publication on condition that they are contributed solely to this journal. Material appearing in MISSOURI MEDICINE is protected by copyright.

Manuscripts should be submitted to the editor, Jordan W. Burkey, M.D., P.O. Box 1028, 113 Madison, Jefferson City, Mo. 65102. The transmittal letter should designate one author as correspondent and include his address and telephone number.

In addition, in view of *The Copyright Revision Act of 1976*, effective Jan. 1, 1978, transmittal letters to the editor should contain the following language: "In consideration of the Missouri State Medical Association's taking action in reviewing and editing my submission, the author(s) undersigned hereby transfers, assigns or otherwise conveys all copyright ownership to the MSMA in the event that such work is published by the MSMA." We regret that transmittal letters not containing the foregoing language signed by all authors of the submission will necessitate delay in review of the manuscript. Please include the title of the article in the transmittal letter.

Manuscripts

Manuscripts should be typewritten, double spaced, and the original with one copy submitted. Retain another copy for proofreading. Please number the pages of your manuscript. Manuscripts are not returned. Hospital and University appointments of the author(s) should accompany the manuscript. A synopsis-abstract of no more than 75 words should accompany the manuscript.

References

References should be cited in numerical order in the text and arranged at the end of the article in the same order in which they are cited. The reference should give name of author, title of article, name of periodical, volume number, initial page number and year. Authors are responsible for reference accuracy.

Illustrations

Illustrations should be glossy prints or drawings in India ink on white paper. They should not be mounted and name of author and figure number should be penciled lightly on the back. Legends should appear on a separate sheet.

Legal difficulties may arise from unauthorized use of names, initials or photographs in which individuals can be identified. Permission should be secured from patient or legal guardian and signed duplicate or photostat submitted with such photographs or identification. The Editor and Editorial Board assume no responsibility for the opinions and claims expressed in articles contributed by authors. If citation of an institution related to the article is made, approval of the chief of service should be given in a letter accompanying the article.

Reprints

Reprint order blanks will accompany proof, which will be sent to authors prior to publication.

Editorials

Editorials should be written in clear, concise language. Length should be about two or three pages typed with double spacing.

Letters

Letters will be published at the discretion of the editor, managing editor, and Editorial Board.

Deadline

All material other than scientific should be received prior to the first of the month preceding month of publication.

Index to Advertisers

Ayerst Labs **630B-D, 666A-D**

D.O.C., Inc. **666**

E. F. Hutton **632**

Eli Lilly **638B**

Forrest T. Jones **631**

Fred S. James **665**

Goetze-Niemer **659**

Medical Defense Associates **626**

Medical Management Resources **658**

Medical Protective Company **661**

Methodist Medical Staff **664**

MOMEDICO **622**

Risk Control Associates **638**

Roche Laboratories **634, 670-671, 675-676**

Smith, Kline & French **630A**

The Shealy Institute **664**

The Upjohn Company **638A**

United Missouri Banks **624**

Wes Woodbury **666**

Medical School News

University of Missouri-Kansas City

■ **Marjorie Sirridge, M.D.**, assistant dean for curriculum and professor of medicine at UMKC School of Medicine and Truman Medical Center, recently was presented with the 1987 Woman of the Year Award at the annual meeting of the Central Exchange.

Although Dr. Sirridge is known for numerous professional accomplishments, she was presented with the award because of her avocation — mentoring women. Throughout her career, Dr. Sirridge has helped women receive opportunities to reach their potential, particularly, but not limited to the field of medicine. She is considered a mentor and role model to many. The Central Exchange is a networking organization of professional, business, government, non-profit agency, and volunteer women.

■ Several new faculty members recently joined the staffs of UMKC School of Medicine and Truman Medical Center. **Annette Quick, M.D.**, and **Marcia Kielhofner, M.D.**, both are docents and instructors in Medicine. Dr. Quick graduated from UMKC in 1984, and did her internal medicine residency with the Consortium for Health Education in Kansas City. She also holds an appointment as a fellow in cardiology. Dr. Kielhofner is a 1984 graduate of UMKC School of Medicine who completed her internal medicine residency at the Consortium for Health Education and currently is a fellow in infectious disease.

In addition, **Julie Oki, Pharm.D.**, has joined the UMKC/TMC staff as a clinical pharmacist. She received her pharmacology degree from the University of Utah, Salt Lake City, in 1986, and completed her Pharm.D. residency at TMC in 1987.

New to Truman Medical Center's Pathology staff are **Glynnis B. Ingall, M.D., Ph.D.**, and **J.H. Frank Peng, Ph.D.** Dr. Ingall, an assistant professor, earned her Ph.D. in pharmacology from the University of Utah in Salt Lake City in 1978, and her M.D. from the University of Iowa, Iowa City, in 1982. She did her pathology residency at the University of Wisconsin-Madison. Dr. Peng received his Ph.D. in biochemistry from Louisiana State University, Baton Rouge, in 1974. He most recently was an instructor in UMKC's School of Basic Life Sciences.

■ UMKC School of Medicine and Truman Medical Center hosted 20 high-school students for one month as part of the eighth annual Summer Scholars program. The program accepts minority and disadvantaged students interested in health-care careers and provides a curriculum that provides first-hand exposure to various aspects of medicine.

In addition to hospital experience, participants attend academic classes and sessions that focus on skills that will help them in their college careers, such as test-taking and interview skills. **Reaner Shannon, Ph.D.**, associate professor of medicine, was program coordinator.

■ The Eye Foundation of Kansas City on June 6 was officially inaugurated at a special dedication ceremony. The Eye Foundation is a not-for-profit corporation founded by community ophthalmologists and affiliated with the University of Missouri-Kansas City School of Medicine and Truman Medical Center. It provides facilities for laser surgery and outpatient microsurgery. The dedication marked completion of the first stage of the facility — clinical operations on the first floor.

Future developments will include finishing the second and third floors of the 25,000-square-foot facility for both clinical and basic research, as well as an ophthalmic library. Dedication day also included a 5K run, tours of the building, and a black-tie ball, attended by about 300 people.

Keynote speaker for the dedication was world-renowned ophthalmologist **Charles Schepens, M.D.**, clinical professor emeritus at Harvard Medical School, and founder and president of the Eye Research Institute of the Retinal Foundation, Boston.

■ A $5,000 grant from the March of Dimes will serve as seed money in helping researchers from Truman Medical Center and the University of Missouri-Kansas City develop a blueprint for a regionally-coordinated system of maternal and perinatal care for the medically indigent.

Dev Maulik, M.D., the grant's principal investigator, is working with professors **Probir Roy**, **Barry Daneman**, and **Fred Hays** of UMKC's Bloch School of Business and Public Administration on the design and implementation of the system. Dr. Maulik is professor of OB/GYN and director of the Division of Obstetrics and Perinatology. The March of Dimes grant will support the preliminary research needed to develop such a system.

■ **William Isley, M.D.**, and **Beaty Pemberton, M.D.**, recently were awarded the Alex Sonnenwirth, MD. Memorial Award from the St. Louis Friends of UMKC School of Medicine to continue their study, "The Correlation Between Growth Hormone Change and Somatomedin-C Changes."

Dr. Isley is a docent and assistant professor of Endocrinology at TMC and UMKC; Dr. Pemberton is professor and chairman of the Department of Surgery. The late Dr. Sonnenwirth was an early president of the St. Louis Friends group, a parents support group for the School of Medicine. He was a professor of Microbiology and Pathology at Washington University School of Medicine and microbiologist at the Jewish Hospital of St. Louis.

■ The Missouri Geriatric Education Center (MGEC) grant was renewed for the third of three years, from Oct. 1987-Sept. 1988, for $274,000. The grant is under the direction of **Richardson K. Noback, M.D.**, professor of Medicine and head of the Section of Geriatrics at UMKC School of Medicine, and **William Bradshaw, M.D.**, professor, Department of Community and Family Medicine at the University of Missouri-Columbia. The Health and Human Services grant is designed to "teach educators to educate" in the fields of geriatrics and gerontology.

■ **Nina Beatty, M.D.**, professor of Medicine and Biology, recently assumed the presidency of Truman Medical Center's Medical-Dental staff. Last year's staff president, **Richardson K. Noback, M.D.**, professor of Medicine, addressed the 375-member audience at the 25th anniversary of the Medical-Dental staff dinner on June 27, focusing on the issues of care for the medically indigent in Missouri, and on the many accomplished individuals who have helped carry out TMC's missions over the years. In addition, 59 residents and four fellows were presented with diplomas.

- **Lee Langley, Ph.D.**, professor of Basic Life Science and Medicine and former associate dean of UMKC School of Medicine, was honored at an Aug. 31 retirement reception at the medical school. Dr. Langley has made many contributions to the medical school, both as an instructor and as an administrator.

- **Louise Arnold, Ph.D.**, director of the Office of Medical Education and Research, was among 70 women from across the country who spent the month of July attending the Summer Institute for Women in Higher Education Administration. The program, held on the Bryn Mawr College campus, is sponsored by Bryn Mawr and HERS-Mid-America (Higher Education Resource Services). The program is designed for professional women in higher education who wish to prepare themselves for further administrative responsibilities by offering intensive training in key areas.

- Construction is well underway on either side of UMKC School of Medicine. To the west, a Magnetic Resonance Imaging facility, adjacent to the recently completed Eye Foundation of Kansas City, will provide up-to-date facilities for diagnostic imaging for patients and physicians at Truman Medical Center, the school's primary teaching hospital, and for Children's Mercy Hospital. The MRI facility is expected to be fully operational in October.

In addition, a new parking lot for medical and dental students is under construction on the east side of the school, which will allow approximately 215 much-needed spaces for these students. Much of the property on which the two-tiered lot is being built was acquired by the Truman Medical Center Charitable Foundation and transferred to the University at far below its appraised value.

- In addition to an up-to-date facility for Magnetic Resonance Imaging, UMKC School of Medicine professors and Truman Medical Center physicians are exploring the future of diagnostic imaging as well. TMC is among 15 centers across the country which have recently begun sophisticated research projects, collectively dubbed "Pegasus," for Phillips Medical System. The objective is to develop an integrated three-dimensional image reconstruction system. If successfully developed for medical use, the complex system would create state-of-the-art images of the internal body. The system would provide still, three-dimensional images from any angle, as well as real time moving images — of a beating heart, for example. Physicians from TMC's Radiology Department, led by department chairman and professor of Radiology **Fong Tsai, M.D.**, are working with TMC computer programmers to research and write software programs in three separate medical areas over the next 18 months: carotid artery/stroke, brain tumors, and facial bone reconstruction. Other centers involved in the research include the Mayo Clinic, Johns Hopkins Medical Institutions, UCLA, USC and Emory University.

St. Louis University

- On July 30, surgeons at The University Hospital at St. Louis University Medical Center implanted a Jarvik 7 artificial heart into a 59-year-old man as a temporary measure until a donor heart becomes available. This was the first time in Missouri that the Jarvik 7 had been used as a bridge to transplantation.

The patient suffered a massive heart attack that left both pumping chambers of his heart extremely weakened and unable to sustain his life. Surgeons determined that a heart transplant was

HOW IMPROVED CPT CODING CAN INCREASE YOUR REVENUE

According to the AMA, errors in CPT Coding and inadequate reporting of CPT codes cost physicians **thousands** of dollars in lost revenues every year. Our client experience certainly supports that statement.

We are now able to offer you professional assistance, certified by the American Medical Records Association, to analyze your CPT Coding procedures, make recommendations that can improve your collections, and train your staff on how to help you collect your fair fees.

If you feel your practice would benefit by a CPT Coding Evaluation, please call **(913)268-0001** and ask for Dr. Jan Woerth.

Medical Management Resources, Inc.
11409 W. 72nd Terrace
Shawnee, Kansas 66203

the patient's only chance to live and felt the best alternative was to implant the Jarvik 7 while waiting for a suitable heart.

D. Glenn Pennington, M.D., professor of surgery at St. Louis University School of Medicine, led the implant team, which included **Kirk R. Kanter, M.D.**, and **Lawrence R. McBride, M.D.**, both assistant professors in the department of surgery.

- St. Louis University Medical Center has received funds totaling $719,524 from the United States Public Health Service to support academic programs in nursing and in health administration.

The School of Nursing was awarded $347,002 to further develop the master's degree program in community health nursing. The master's program in nursing administration was given $303,182. A third grant of $58,330 will fund a professional nurse traineeship program.

The Center for Health Services Education and Research (CHSER) was awarded $69,340 for graduate programs in health care administration. CHSER, established in 1979, offers graduate degrees in community health, hospital and health care administration, health services research, health services continuing education, and pastoral health care.

- Three Level 1 Trauma Centers in the St. Louis area recently announced the formation of a not-for-profit consortium to provide helicopter ambulance service on a regional basis. The University Hospital at St. Louis University Medical Center, Barnes Hospital, and St. John's Mercy Medical Center have entered into the program to be known as ARCH, an acronym for Area Rescue Consortium of Hospitals, Inc.

Effective August 1, 1987, the new corporation acquired MARC, the helicopter ambulance service which has been operated by St. Louis University Medical Center since 1979. In the most recent 12-month period, MARC logged 1,275 flights, and has had an outstanding accident-free record since its inception.

ARCH will operate a three helicopter system. A helicopter and crew, including flight nurse, will be stationed at each of the three hospitals comprising the consortium. The helicopters will continue to be dispatched through the regional dispatch center operated by Abbott Ambulance. ARCH will contract with area hospitals to supply helicopter ambulance service throughout the region and within 150 miles of St. Louis.

A spokesman for ARCH explained that this joint venture provides the opportunity to address the growing community need for helicopter ambulance service.

The University of Missouri-Columbia

- **Charlotte M. Balcer, M.D.**, second-year resident, has been selected from 5,000 nominees as one of six psychiatry residents across the country to become a 1987-88 Rappeport Fellow of the American Academy of Psychiatry and the law. Dr. Balcer, whose interest in forensic psychiatry began during medical school, is currently working on various projects with **Bruce E. Harry, M.D.**, assistant professor of psychiatry and adjunct assistant professor of law, and **William R. Holcomb, Ph.D.**, clinical assistant professor of psychiatry.

New **HemaWipe**® System
Designed to solve
the compliance problem

Just wipe, peel and seal.

**Introducing the first "civilized" test
for fecal occult blood.**

For more information call

The GOETZE-NIEMER CO.
1701 Brooklyn, K.C., MO. 816-231-1900
1-800-892-7337 (MO) 1-800-492-7337 (KS)

■ **James T. Barrett, Ph.D.,** professor of microbiology, presented seminars earlier this year on "Advances in T-cell Immunology" at the Universidad de Sevilla and Universidad de Bilbao in Spain.

■ **Bernard D. Beitman, M.D.,** associate professor of psychiatry, had his research entitled "Panic Disorder and Chest Pain in Cardiology Patients" published in the September issue of *Archives of Internal Medicine.*

■ **Charles W. Caldwell, M.D., Ph.D.,** assistant professor of pathology and director of the flow cytometry laboratory, has won a $34,981 grant from the Missouri Kidney Program. Dr. Caldwell is looking for early detection signals of kidney transplant rejection.

■ **Armando R. Favazza, M.D.,** professor and associate chairman of psychiatry, was invited to international conferences this summer in Trieste, Italy, and Karachi, Pakistan. He spoke on cultural psychiatry and why people harm themselves.

■ **Herbert A. Ferrari, M.D.,** clinical professor of anesthesiology and surgery, was recently named a member of the board of directors of the National Association of Medical Directors of Respiratory Therapy at its annual meeting in Washington.

■ **Stephen P. Halenda, Ph.D.,** assistant professor of pharmacology, has received a grant of $25,340 from the National Institutes of Health to study the "Role of C-Kinase in Platelet Arachidonate Release."

■ **S. Arshad Husain, M.D.,** professor and chief of child psychiatry, participated in workshops on "Terrorism — Challenge for International Physicians," sponsored by the American Psychiatric Association's Committee on Foreign Medical Graduates, of which he is chairman. He also discussed certification and examination of foreign medical graduates as a member of the APA's Task Force to Facilitate Communication between the American Psychiatric Association and the American Board of Psychiatry and Neurology

■ **William Krause, Ph.D.,** and **J. Harry Cutts, Ph.D.,** both professors of anatomy, have received praise from the *Journal of Anatomy* for their book, *Concise Text of Histology*. The journal said the textbook is "an excellent volume" which presents "a concise coverage of the subject without sacrificing any of the (essential) detail." The reviewer says, "the book will gain popularity among the student body as well as providing a useful reference book for histologists."

■ **Timothy S. Loy, M.D.,** has joined the staff as an assistant professor of pathology. Dr. Loy, who received his residency training in the department of pathology, has returned to the School after a year as a surgical pathology fellow at the University of Minnesota.

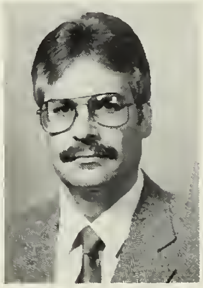
■ **Charlotte Parker, Ph.D.,** associate professor of microbiology, will spend 1988 researching construction of live attenuated bacterial vaccine strains at Washington University.

■ **Willis Paull, M.D.,** professor and chairman of anatomy, has been awarded a prestigious international grant to continue his research into the mechanisms of stress in cooperation with Hungarian scientists. The three-year grant from the National Science Foundation's U.S.-Eastern Europe Cooperative Science Programs will allow Dr. Paull, and his colleagues to continue investigating how the brain responds to stress in cooperation with **Zsolt Liposits, M.D.,** faculty member at the University Medical School in Pecos, Hungary. Dr. Liposits has just returned to Hungary with his family after spending two-and-a-half years in Columbia as a part of the University's multidisciplinary group of researchers studying stress.

■ **Michael Prewitt, Ph.D.,** associate director of health related professions, represented the school at the Midwest Allied Health Consortium for Minority Recruitment and Support at Western Michigan University.

■ **Hammond Riggs Jr., Ph.D.,** associate professor of microbiology, recently participated in the visiting professor program and lectured to medical students at the Autonomous University of Guadalajara, in Mexico.

■ **P. Kevin Rudeen, Ph.D.,** associate professor of anatomy, has received an award from the Saylor Hawkins Foundation to continue research into fetal alcohol and drug addiction.



P. Kevin Rudeen, Ph.D.

■ **Daniel Villarreal, M.D.,** assistant professor of medicine, has received a Veterans Administration Research Career Development Award, which covers 100 percent of his salary. Dr. Villarreal has also received a V.A. Merit Review Grant of $50,000 to study atrial natriuretic factor control mechanisms.

■ **The McAlester Society,** a new gift-giving club, has been established by the Medical School Foundation and the School of Medicine. Named after Andrew McAlester, dean from 1883 to 1909, the society has three annual gift levels including fellow membership, benefactor membership and patron membership.

■ The new **Preprofessional Scholars Program** of the School of Medicine admits especially bright high school seniors to the school without requiring them to take the Medical College Admission Test. Seniors with a minimum SAT score of 1300 or an ACT score of 30 are eligible to apply. Once accepted, they must take 20 hours of Honors College courses in addition to specified science courses and earn at least a 3.3 grade point average.

WANTED:

- **Opinions**
- **Comments**
- **Suggestions**
- **Ideas**

Submit them in writing to:

**Letters to
the Editor
MISSOURI MEDICINE
P.O. Box 1028
Jefferson City, MO
65102**

Physician's Recognition Awards

Forty-two MSMA members qualified for the MSMA-AMA Physician's Recognition Award during July 1987.

The award, presented by the Missouri State Medical Association and the American Medical Association, is given to those physicians who voluntarily complete 150 credit hours of continuing medical education within a three-year period. Sixty of the credit hours must be earned in Category I programs.

Metro Med-Greater Kansas City

Calvin J. Curts, *Kansas City*
Joseph L. Denner, *Kansas City*
William C. Eikerman, *Kansas City*
Allan R. Fleming, *Kansas City*
Henry N. Habib, *Kansas City*
Hamner Hannah, *Kansas City*
Lanny W. Harris, *Kansas City*
Harry S. Jonas, *Kansas City*
John F. McDonnell, *Kansas City*
Andrew D. Mitchell, *Kansas City*
Antonio R. Paschino, *Kansas City*
Huseni E. Poonawala, *Kansas City*
Vidya Sharma, *Kansas City*
Harry Statland, *Kansas City*
Robert E. Stephenson, *Kansas City*
Arnulfo P. Sulit, *Kansas City*
Harold D. West, *Independence*
Herbert J. Winer, *Kansas City*
Jeffrey A. Wright, *Kansas City*
James P. Youngblood, *Kansas City*

Cole

Lawrence E. Giffen, *Jefferson City*

Greene

William R. Lamb, *Nixa*
C. Norman Shealy, *Fair Grove*

Boone

John D. DeSpain, *Columbia*
William T. Griffin, *Columbia*
Ralph D. Reynolds, *Columbia*
James A. Roller, *Columbia*

Cape Girardeau

David J. Clark, *Cape Girardeau*
Robert S. Hunt, *Cape Girardeau*
Melvin C. Kasten, *Cape Girardeau*

Clay-Platte

Larry E. Benson, *North Kansas City*
Newton C. McCluggage, *North Kansas City*

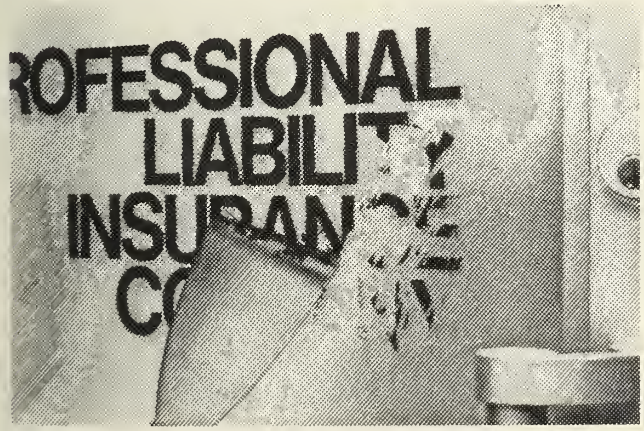
St. Louis Metropolitan

Matthias H. Backer, *St. Louis*
Harry O. Cole, *Chesterfield*
Richard A. Covert, *Ballwin*
John A. Gantz, *St. Louis*
Gordon M. Goldman, *Creve Coeur*
Bruce L. McClennan, *St. Louis*
Seoung E. Rhee, *St. Louis*
Jonathan I. Wiener, *St. Louis*

Jasper

Lowell K. Pottenger, *Joplin*
Howard H. Roberts, *Joplin*

In ten years your malpractice carrier may be just a memory.



Unless it's Medical Protective.
The most important thing an insurance company sells is its promise to be here when you need help. Unfortunately, that's a promise that's easy to make, but hard to keep.

When you consider liability insurance, remember this. A company that's survived tough times before is more likely to come through a crisis period. And no company has weathered more of the industry's tough times than The Medical Protective Company because we pioneered professional liability coverage nearly a century ago.

For more information contact your Medical Protective Company general agent. He'll be here when you need him.

The
Medical Protective Company
Fort Wayne, Indiana

Ralph E. Borgmann, Philip E. Moppert
Suite 120, 13100 Manchester Road, St. Louis, MO 63131, (314) 965-7400

Robert E. McCurdy, Thomas E. Meierant
Suite 290, 7500 West 95th Street, P.O. Box 12128, Overland Park, KS 66212, (913) 381-4222

℞ HEALTH CARE PROFESSIONALS

DON'T MISS

GATEWAY '87
MEDICAL EXPOSITION
AND SYMPOSIUM

November 11-12, 1987

CERVANTES CONVENTION CENTER
ST. LOUIS, MO

OVER 150 EXHIBITS

SYMPOSIUM

AIDS • Teen Suicide • Substance Abuse • Quality of Care & Assurance Changing Practice Patterns • Changing Trends in Physician Compensation • Doctor to Doctor Talk Show - KMOX Radio

SPEAKERS

Dennis O'Leary, M.D. — JCAH President
Armand E. Brodeur, M.D.
Brant S. Mittler, M.D., P.A.

FREE ADMISSION

SPONSORED BY THE ST. LOUIS METROPOLITAN MEDICAL SOCIETY

FOR MORE INFO, CONTACT ROBERT DONNELL PRODUCTIONS 800-243-9774 or the ST. LOUIS METROPOLITAN MEDICAL SOCIETY AT 314-371-5225

"Without your help I simply could not have made it through medical school."

The Missouri State Medical Foundation — MSMF — was created by the Missouri State Medical Association for the express purpose of giving financial assistance to deserving young Missourians who will be tomorrow's doctors.

Send your check today to the Missouri State Medical Foundation, 113 Madison St., P.O. Box 1028, Jefferson City, MO 65101.

Continuing Medical Education

The continuing medical education accreditation program of the MSMA has full approval by the AMA's Council on Medical Education. The institutions and functions listed here qualify for Category I credit for the AMA Physician's Recognition Award. All accredited institutions in Missouri are invited to send this information for listing in MISSOURI MEDICINE. Please remember to include the name of the individual who can be contacted at your institution for additional information about your CME events.

October

15-25 **Allergy Abroad** — Locations: Stockholm, Copenhagen, London. Contact: Loretta Giacoletto, Washington University School of Medicine, Box 8063, 660 S. Euclid, St. Louis, MO 63110. 314/362-6893.

20-21 **Medicine and Religion: Issues in the Eighties** — Location: University of Kansas Medical Center, Kansas City, KS. Contact: David S. Baldwin, M.P.H., University of Kansas Medical Center, CME Office, 39th and Rainbow Blvd., Kansas City, KS 66103. 913/588-4488.

22-23 **Chronic Obstructive Pulmonary Disease Update** — Location: Holiday Inn Executive Center, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

23 **"Obstetrics Update 1987"** — Location: Ramada Inn, Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

23 **"Annual Toxicology Seminar"** — Location: Omni International Hotel at Union Station, St. Louis, MO. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Blvd., St. Louis, MO. 314/577-8167.

November

5-7 **Annual Fall Clinical Conference** — Location: Alameda Plaza Hotel, Kansas City, MO. Contact: Linda F. Smutz, Executive Director, Kansas City Southwest Clinical Society, 222 West Gregory, Kansas City, MO 64114. 816/523-3383.

6 **"Stoke Today: Preventive Measures & the Role of Ultrasonography"** — Location: Omni International Hotel at Union Station. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Blvd., St. Louis, MO 63104. 314/577-8167.

10 **"Frontiers in Interventional Radiology"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

12-13 **"6th Annual Missouri Conference on Genetic Disorders"** — Location: Omni Hotel, St. Louis, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

12-15 **"Emergency Room Legal Environment: Medicine's Response"** — Location: Hotel Del Coronado, San Diego, CA. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Blvd., St. Louis, MO 63104. 314/577-8167.

13-15 **14th Annual Symposium: Anesthesia and the Geriatric Patient** — Location: The Marriott Pavilion Hotel, One Broadway, St. Louis, MO. Contact: Geriatric Symposium, Department of Anesthesiology, Box 8054, Washington University School of Medicine, 660 S. Euclid Avenue, St. Louis, MO 63110. 314/362-6973.

18-20 **Clinical Advances In Pediatrics: A Postgraduate Course** — Location: Children's Mercy Hospital, Kansas City, MO. Contact: Kurt Metzl, M.D., Course Director, Menorah Medical Center, 4949 Rockhill Road, Kansas City, MO 64110. 816/276-8825.

19 **"Annual Van Smith Lectureship on Hematology and Related Disorders"** — Location: Ramada Inn, Springfield, MO. Contact: James E. Thompson, Jr., Executive Director, Greene County Medical Society, 1200 E. Woodhurst D-200, Springfield, MO 65804. 417/887-1017.

19-20 **"Pediatric Advanced Cardiac & Trauma Support for Life Program"** — Location: Cardinal Glennon Children's Hospital, St. Louis, MO. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Blvd., St. Louis, MO 63104. 314/577-8167.

December

7-8 **33rd Annual Urology Seminar** — Location: Hyatt Regency Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

December (Cont.)

8 **"MRI of the Knee — 3,000 Cases"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

February 1988

5-6 **"Midwinter Laser Course and Fluorescein Angiography Workshop"** — Location: Omni International Hotel at Union Station, St. Louis, MO. Contact: Jeanne B. Toma, 4949 Barnes Hospital Plaza; Suite 17413, St. Louis, MO 63110. 314/367-1181.

10-12 **"8th National Conference on CAPD"** — Location: Westin Crown Center Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

20-22 **"Advanced Cardiac Life Support Provider Course"** — Location: St. Louis University Medical Center, St. Louis, MO. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Ave., St. Louis, MO 63104. 314/577-8167.

April

29-30 **"Eating Disorders"** — Location: Hyatt Regency, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

May

13-15 **"Emergency Room Legal Environment: Medicine's Response"** — Location: Don CeSar Hotel, St. Petersburg, FL. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand, St. Louis, MO 63104.

Breast Cancer: Current Concepts and Controversies

1987 Howard B. Hunt Cancer Seminar
Saturday — December 5, 1987

Methodist Hospital
Omaha, Nebraska

Continuing Education Center

Seminar Will Feature the Following
Guest Lecturers:

Sydney E. Salmon, M.D.
Professor of Internal Medicine and
Director, Arizona Cancer Center
University of Arizona at Tucson

Robert L. Goodman, M.D.
Chairman, Department of Radiation Therapy
Hospital of the University of Pennsylvania
in Philadelphia

William L. Donegan, M.D.
Professor of Surgery
Medical College of Wisconsin
Chief of Surgery, Mount Sinai Medical Center
in Milwaukee, Wisconsin

The Shealy Institute

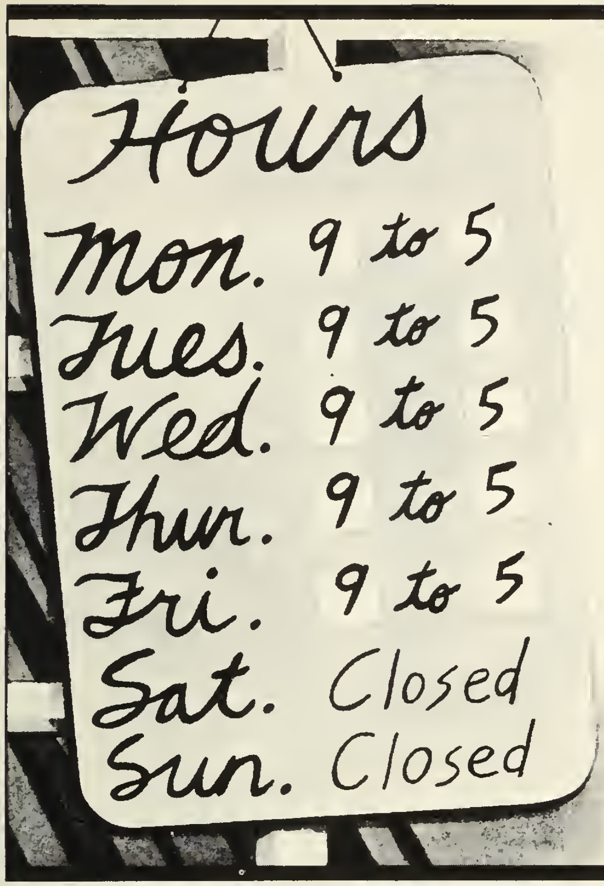
A PRACTICAL SOLUTION TO ONE OF YOUR MOST FRUSTRATING PATIENT PROBLEMS

The Logical Extension of Your Professional Services —

- Our Institute pioneered the comprehensive "Pain Rehabilitation" concept.
- We introduced the pain control techniques most often used in rehabilitating chronic pain patients — facet rhizotomy, TENS, PENS, Biogenics®, and neurochemical profiling.
- We continue to be the recognized leader in the field. Our success is measured by your patient's ability to return to work, withdraw from drugs, and control pain intensity.
- Since we specialize in pain management, your patient returns to you after treatment. We are available as consultants at any time. We are the only *accredited* pain management clinic in the four state area. Our services are covered by most insurance companies and worker's comp programs.

Send for a free copy of
the Shealy Pain Report.
The Shealy Institute
3525 S. National
Springfield, MO 65807
417-882-0850
1-800-492-4171, Ext. 35

CARF
A Nationally Accredited Rehabilitation Facility



Accidents Don't Keep Regular Hours.

Neither Should Your Personal Accident Insurance.

And when they do, they can be costly. That's why the MSMA sponsors an insurance plan for members . . . one that offers attractive coverage at a favorable price.

Accidents occur everywhere — on planes — on buses or other public conveyances — in cars — on the job — in the home — in sports activities.

All members under age 65 are eligible. Your spouse and children (to age 23) can be covered if you apply. Coverage is provided without regard to health history.

The plan is underwritten by Commercial Insurance Company, Newark, N.J.

A NEW, IMPROVED program is now available to you!

Coverage has been broadened and premiums reduced.

Up to $200,000 coverage available for members — Spouse and Children may also be insured.

For full particulars, the Administrators invite you to call or write today.

detach here and mail

Mail to: **James**

FRED.S.JAMES&CO.OFMISSOURI,INC.

Eastern Missouri Administrator
231 S. Bemiston
Clayton, MO 63105
(314) 863-7777

Western Missouri Administrator
2420 Pershing Road
Kansas City, MO 64108
(816) 842-6670

Please send me a brochure and application for the Missouri State Medical Association sponsored plan(s) I've checked below. I understand there is absolutely no obligation.

☐ Personal Disability Income
☐ Office Overhead Expense
☐ Hospital Indemnity Plan
☐ Accidental Death & Dismemberment Insurance

Name ____________________

Address ____________________

City ____________ State ____________ ZIP ____________

Phone: (   ) ____________ Best time to call: ____________

CASH FLOW HEADACHES?

TAKE TWO MINUTES AND CALL US IN THE MORNING.

At best, poor cash flow can be a real pain. At worst, it can cripple your practice. Now fortunately, there's a cure: the Medical Information Management System (MIMS).

It's IBM compatible, multi-user software designed with your needs in mind.

It can bill patients immediately, and file insurance claims electronically. This feature alone cuts payment time from months to as few as four days.

If you're suffering from cash flow headaches, take two minutes and call us toll-free. We'll send you our informative brochure and help you improve your financial health.

1-800-643-8365

MIMS
Medical Information Management Systems

D.O.C., Inc.
P.O. Box 2476
Little Rock, AR 72203

Can you top this?

* Compare these graded premium whole life rates with any term:

Age	*$100,000*	*$250,000*	*$500,000*	*$1,000,000*
30	$118	$ 195	$ 371	$ 695
35	120	201	384	725
40	149	253	480	935
45	179	322	615	1205
50	221	405	770	1535
55	314	593	1160	2295
60	506	998	1974	3915
65	837	1700	3384	6725

Non-Smoker Annual Rates Shown

- ★ Premiums are guaranteed for the first 5 policy years.
- ★ Convertible to any level premium whole life offered by company.
- ★ Premiums increase each year to age 75 then level.
- ★ Rated an "A" Excellent Life Company by A. M. Best Co.

For more information, return this form or contact:

Wes Woodbury & Associates
3609 NE 62nd Terrace
Kansas City, MO 64119
816-455-3400

Amount of insurance $ ____________________

Date of Birth ____________________

Smoker/Non-Smoker (circle one)

Name ____________________

Address ____________________

City/State ____________________

Zip ____________ Phone ____________

To show you how many hypertensives stayed on INDERAL® LA (PROPRANOLOL HCl) after a major nationwide trial...

...we had to find just the right room.

60,073 patients (90%) who started on INDERAL® LA stayed on INDERAL LA.[1]*

Surprising? Not really.

Because most patients on INDERAL LA (propranolol HCl) don't even know it's working.
A recent double-blind, placebo-controlled, crossover study in 138 hypertensive patients[2] revealed that INDERAL LA has a side effects profile unsurpassed by atenolol or metoprolol—which shows how well-tolerated once-daily INDERAL LA can be.

Sole therapy or concomitant therapy? Fifty-nine percent of the time, INDERAL LA stood on its own.

The patients in the nationwide compliance trial were no different from yours. Generally when the antihypertensive regimen is complicated, compliance may become a problem. So, the effectiveness of INDERAL LA as once-daily monotherapy is a big plus. Of the remaining hypertensives in the program, 36% were treated merely with the addition of a diuretic to INDERAL LA.

For the noncompliant patients in your practice, INDERAL LA may well be the answer.

Almost 20,000 of the patients in the nationwide compliance trial were identified as having been noncompliant with their previous antihypertensive therapy. Their physicians reported that 88% showed improved compliance when placed on once-daily INDERAL LA.

Control, comfort, and compliance

ONCE-DAILY
INDERAL® LA
(PROPRANOLOL HCl) LONG ACTING CAPSULES

Like conventional INDERAL Tablets, INDERAL LA should not be used in the presence of congestive heart failure, sinus bradycardia, cardiogenic shock, heart block greater than first degree, and bronchial asthma

*After a 30-day trial with INDERAL LA, physicians reported that 90% of the patients would remain on INDERAL LA.

The one you know best keeps looking better

NOW AVAILABLE...
NEW LOW DOSE
INDERAL LA 60 mg
(PROPRANOLOL HCl) LONG ACTING CAPSULES

Please see next page for brief summary of prescribing information

The one you know best keeps looking better

BRIEF SUMMARY *(FOR FULL PRESCRIBING INFORMATION SEE PACKAGE CIRCULAR)*

INDERAL® LA brand of propranolol hydrochloride **(Long Acting Capsules)**

DESCRIPTION. INDERAL LA is formulated to provide a sustained release of propranolol hydrochloride INDERAL LA is available as 60 mg 80 mg, 120 mg, and 160 mg capsules

CLINICAL PHARMACOLOGY. INDERAL is a nonselective, beta-adrenergic receptor-blocking agent possessing no other autonomic nervous system activity It specifically competes with beta-adrenergic receptor-stimulating agents for available receptor sites When access to beta-receptor sites is blocked by INDERAL, the chronotropic, inotropic, and vasodilator responses to beta-adrenergic stimulation are decreased proportionately

INDERAL LA Capsules (60, 80, 120, and 160 mg) release propranolol HCl at a controlled and predictable rate Peak blood levels following dosing with INDERAL LA occur at about 6 hours and the apparent plasma half-life is about 10 hours When measured at steady state over a 24-hour period the areas under the propranolol plasma concentration-time curve (AUCs) for the capsules are approximately 60% to 65% of the AUCs for a comparable divided daily dose of INDERAL Tablets The lower AUCs for the capsules are due to greater hepatic metabolism of propranolol, resulting from the slower rate of absorption of propranolol Over a twenty-four (24) hour period, blood levels are fairly constant for about twelve (12) hours then decline exponentially

INDERAL LA should not be considered a simple mg-for-mg substitute for conventional propranolol and the blood levels achieved do not match (are lower than) those of two to four times daily dosing with the same dose When changing to INDERAL LA from conventional propranolol, a possible need for retitration upwards should be considered especially to maintain effectiveness at the end of the dosing interval In most clinical settings however, such as hypertension or angina where there is little correlation between plasma levels and clinical effect, INDERAL LA has been therapeutically equivalent to the same mg dose of conventional INDERAL as assessed by 24-hour effects on blood pressure and on 24-hour exercise responses of heart rate, systolic pressure and rate pressure product INDERAL LA can provide effective beta blockade for a 24-hour period

INDICATIONS AND USAGE. Hypertension: INDERAL LA is indicated in the management of hypertension it may be used alone or used in combination with other antihypertensive agents, particularly a thiazide diuretic INDERAL LA is not indicated in the management of hypertensive emergencies

Angina Pectoris Due to Coronary Atherosclerosis: INDERAL LA is indicated for the long-term management of patients with angina pectoris

Migraine: INDERAL LA is indicated for the prophylaxis of common migraine headache The efficacy of propranolol in the treatment of a migraine attack that has started has not been established and propranolol is not indicated for such use

Hypertrophic Subaortic Stenosis: INDERAL LA is useful in the management of hypertrophic subaortic stenosis, especially for treatment of exertional or other stress-induced angina, palpitations, and syncope INDERAL LA also improves exercise performance The effectiveness of propranolol hydrochloride in this disease appears to be due to a reduction of the elevated outflow pressure gradient which is exacerbated by beta-receptor stimulation Clinical improvement may be temporary

CONTRAINDICATIONS. INDERAL is contraindicated in 1) cardiogenic shock 2) sinus bradycardia and greater than first-degree block, 3) bronchial asthma, 4) congestive heart failure (see WARNINGS) unless the failure is secondary to a tachyarrhythmia treatable with INDERAL

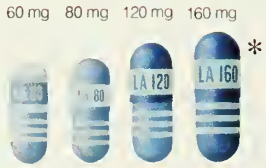
WARNINGS. CARDIAC FAILURE Sympathetic stimulation may be a vital component supporting circulatory function in patients with congestive heart failure, and its inhibition by beta blockade may precipitate more severe failure Although beta blockers should be avoided in overt congestive heart failure, if necessary, they can be used with close follow-up in patients with a history of failure who are well compensated and are receiving digitalis and diuretics Beta-adrenergic blocking agents do not abolish the inotropic action of digitalis on heart muscle

ONCE-DAILY

INDERAL® LA

(PROPRANOLOL HCl)

LONG ACTING CAPSULES



IN PATIENTS WITHOUT A HISTORY OF HEART FAILURE, continued use of beta blockers can, in some cases, lead to cardiac failure Therefore, at the first sign or symptom of heart failure, the patient should be digitalized and/or treated with diuretics, and the response observed closely, or INDERAL should be discontinued (gradually, if possible)

> IN PATIENTS WITH ANGINA PECTORIS, there have been reports of exacerbation of angina and, in some cases, myocardial infarction, following *abrupt* discontinuance of INDERAL therapy Therefore, when discontinuance of INDERAL is planned, the dosage should be gradually reduced over at least a few weeks, and the patient should be cautioned against interruption or cessation of therapy without the physician's advice If INDERAL therapy is interrupted and exacerbation of angina occurs, it usually is advisable to reinstitute INDERAL therapy and take other measures appropriate for the management of unstable angina pectoris Since coronary artery disease may be unrecognized, it may be prudent to follow the above advice in patients considered at risk of having occult atherosclerotic heart disease who are given propranolol for other indications

Nonallergic Bronchospasm (eg, chronic bronchitis, emphysema) — PATIENTS WITH BRONCHOSPASTIC DISEASES SHOULD IN GENERAL NOT RECEIVE BETA BLOCKERS INDERAL should be administered with caution since it may block bronchodilation produced by endogenous and exogenous catecholamine stimulation of beta receptors.

MAJOR SURGERY The necessity or desirability of withdrawal of beta-blocking therapy prior to major surgery is controversial It should be noted, however, that the impaired ability of the heart to respond to reflex adrenergic stimuli may augment the risks of general anesthesia and surgical procedures

INDERAL (propranolol HCl), like other beta blockers, is a competitive inhibitor of beta-receptor agonists and its effects can be reversed by administration of such agents, eg, dobutamine or isoproterenol However, such patients may be subject to protracted severe hypotension Difficulty in starting and maintaining the heartbeat has also been reported with beta blockers.

DIABETES AND HYPOGLYCEMIA Beta blockers should be used with caution in diabetic patients if a beta-blocking agent is required Beta blockers may mask tachycardia occurring with hypoglycemia, but other manifestations such as dizziness and sweating may not be significantly affected Following insulin-induced hypoglycemia, propranolol may cause a delay in the recovery of blood glucose to normal levels

THYROTOXICOSIS Beta blockade may mask certain clinical signs of hyperthyroidism Therefore, abrupt withdrawal of propranolol may be followed by an exacerbation of symptoms of hyperthyroidism, including thyroid storm Propranolol may change thyroid function tests, increasing T_4 and reverse T_3, and decreasing T_3

IN PATIENTS WITH WOLFF-PARKINSON-WHITE SYNDROME, several cases have been reported in which, after propranolol, the tachycardia was replaced by a severe bradycardia requiring a demand pacemaker In one case, this resulted after an initial dose of 5 mg propranolol

PRECAUTIONS. GENERAL. Propranolol should be used with caution in patients with impaired hepatic or renal function INDERAL (propranolol HCl) is not indicated for the treatment of hypertensive emergencies

Beta-adrenoreceptor blockade can cause reduction of intraocular pressure Patients should be told that INDERAL may interfere with the glaucoma screening test Withdrawal may lead to a return of increased intraocular pressure

CLINICAL LABORATORY TESTS Elevated blood urea levels in patients with severe heart disease, elevated serum transaminase, alkaline phosphatase, lactate dehydrogenase

DRUG INTERACTIONS Patients receiving catecholamine-depleting drugs such as reserpine should be closely observed if INDERAL is administered The added catecholamine-blocking action may produce an excessive reduction of resting sympathetic nervous activity which may result in hypotension, marked bradycardia vertigo, syncopal attacks, or orthostatic hypotension

Caution should be exercised when patients receiving a beta blocker are administered a calcium-channel-blocking drug especially intravenous verapamil, for both agents may depress myocardial contractility or atrioventricular conduction On rare occasions, the concomitant intravenous use of a beta blocker and verapamil has resulted in serious adverse reactions, especially in patients with severe cardiomyopathy, congestive heart failure or recent myocardial infarction

Aluminum hydroxide gel greatly reduces intestinal absorption of propranolol

Ethanol slows the rate of absorption of propranolol

Phenytoin, *phenobarbitone*, and *rifampin* accelerate propranolol clearance

Chlorpromazine, when used concomitantly with propranolol, results in increased plasma levels of both drugs

Antipyrine and *lidocaine* have reduced clearance when used concomitantly with propranolol

Thyroxine may result in a lower than expected T_3 concentration when used concomitantly with propranolol

Cimetidine decreases the hepatic metabolism of propranolol, delaying elimination and increasing blood levels

Theophylline clearance is reduced when used concomitantly with propranolol

CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY Long-term studies in animals have been conducted to evaluate toxic effects and carcinogenic potential In 18-month studies in both rats and mice, employing doses up to 150 mg/kg/day, there was no evidence of significant drug-induced toxicity There were no drug-related tumorigenic effects at any of the dosage levels Reproductive studies in animals did not show any impairment of fertility that was attributable to the drug

PREGNANCY Pregnancy Category C INDERAL has been shown to be embryotoxic in animal studies at doses about 10 times greater than the maximum recommended human dose

There are no adequate and well-controlled studies in pregnant women INDERAL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

NURSING MOTHERS INDERAL is excreted in human milk Caution should be exercised when INDERAL (propranolol HCl) is administered to a nursing woman

PEDIATRIC USE Safety and effectiveness in children have not been established

ADVERSE REACTIONS. Most adverse effects have been mild and transient and have rarely required the withdrawal of therapy

Cardiovascular Bradycardia, congestive heart failure, intensification of AV block, hypotension, paresthesia of hands, thrombocytopenic purpura, arterial insufficiency, usually of the Raynaud type

Central Nervous System Light-headedness, mental depression manifested by insomnia, lassitude, weakness, fatigue, reversible mental depression progressing to catatonia, visual disturbances, hallucinations, vivid dreams, an acute reversible syndrome characterized by disorientation for time and place, short-term memory loss, emotional lability, slightly clouded sensorium, and decreased performance on neuropsychometrics For immediate formulations, fatigue, lethargy, and vivid dreams appear dose related

Gastrointestinal Nausea, vomiting, epigastric distress, abdominal cramping, diarrhea, constipation, mesenteric arterial thrombosis, ischemic colitis

Allergic Pharyngitis and agranulocytosis, erythematous rash, fever combined with aching and sore throat, laryngospasm and respiratory distress

Respiratory Bronchospasm

Hematologic Agranulocytosis, nonthrombocytopenic purpura, thrombocytopenic purpura

Auto-Immune. In extremely rare instances, systemic lupus erythematosus has been reported

Miscellaneous. Alopecia, LE-like reactions, psoriasiform rashes, dry eyes, male impotence, and Peyronie's disease have been reported rarely Oculomucocutaneous reactions involving the skin, serous membranes and conjunctivae reported for a beta blocker (practolol) have not been associated with propranolol.

DOSAGE AND ADMINISTRATION. INDERAL LA provides propranolol hydrochloride in a sustained-release capsule for administration once daily If patients are switched from INDERAL Tablets to INDERAL LA Capsules, care should be taken to assure that the desired therapeutic effect is maintained INDERAL LA should not be considered a simple mg-for-mg substitute for INDERAL INDERAL LA has different kinetics and produces lower blood levels. Retitration may be necessary, especially to maintain effectiveness at the end of the 24-hour dosing interval.

HYPERTENSION — *Dosage must be individualized* The usual initial dosage is 80 mg INDERAL LA once daily, whether used alone or added to a diuretic The dosage may be increased to 120 mg once daily or higher until adequate blood-pressure control is achieved The usual maintenance dosage is 120 to 160 mg once daily In some instances a dosage of 640 mg may be required The time needed for full hypertensive response to a given dosage is variable and may range from a few days to several weeks

ANGINA PECTORIS — *Dosage must be individualized* Starting with 80 mg INDERAL LA once daily, dosage should be gradually increased at three- to seven-day intervals until optimal response is obtained Although individual patients may respond at any dosage level, the average optimal dosage appears to be 160 mg once daily In angina pectoris, the value and safety of dosage exceeding 320 mg per day have not been established

If treatment is to be discontinued, reduce dosage gradually over a period of a few weeks (see WARNINGS)

MIGRAINE — *Dosage must be individualized* The initial oral dose is 80 mg INDERAL LA once daily The usual effective dose range is 160-240 mg once daily The dosage may be increased gradually to achieve optimal migraine prophylaxis If a satisfactory response is not obtained within four to six weeks after reaching the maximal dose, INDERAL LA therapy should be discontinued It may be advisable to withdraw the drug gradually over a period of several weeks

HYPERTROPHIC SUBAORTIC STENOSIS — 80-160 mg INDERAL LA once daily

PEDIATRIC DOSAGE — At this time the data on the use of the drug in this age group are too limited to permit adequate directions for use.

*The appearance of these capsules is a registered trademark of Ayerst Laboratories

---

REFERENCES:

1. INDERAL LA National Compliance Evaluation Program Data on file, Ayerst Laboratories
2. Ravid M, Lang R, Jutrin I The relative antihypertensive potency of propranolol, oxprenolol, atenolol, and metoprolol given once daily *Arch Intern Med* 1985, 145 1321-1323

1R7119/887

Ayerst

AYERST LABORATORIES
New York, NY 10017

© 1987 Ayerst Laboratories

New Members

- **Imad M. Al-Basha, M.D.,** HSC-UMC, One Hospital Drive, Columbia, MO 65212, has become a member of the Boone County Medical Society. Dr. Al-Basha received his preliminary education at the American University of Beirut-Lebanon and obtained his medical degree at the American University of Beirut School of Medicine in 1980. He is completing his residency at the University of Missouri Hospital and Clinics, Columbia, MO. He specializes in psychiatry.
- **Jay T. Backstrom, M.D.,** Wayne Miner Health Center, 825 Euclid Ave., Kansas City, MO 64124, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Backstrom received his preliminary education at Indiana University of Pennsylvania and obtained his medical degree at Temple University in 1982. He completed his residency at Temple University Hospital, Philadelphia, PA. He specializes in internal medicine.
- **Desiree N. Bennett, M.D.,** Wayne Miner Health Center, 825 Euclid Ave., Kansas City, MO 64124, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Bennett received her preliminary education at Brown University and obtained her medical degree at Temple University School of Medicine in 1982. She completed her residency at Albert Einstein Medical Center, Philadelphia, PA. She specializes in internal medicine.
- **Michael A. Billow, D.O.,** 6400 Prospect, Suite 1381, Kansas City, MO 64132, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Billow received his preliminary education at Case Western Reserve University and obtained his osteopathic degree at the College of Osteopathic Medicine-Des Moines, Iowa. He completed his residency at Rush-Presbyterian St. Luke's Hospital, Chicago, IL. He specializes in pediatric critical care.
- **John R. Brewer, M.D.,** 3415 Bridgeland Drive, Bridgeton, MO 63044, has become a member of the St. Louis Metropolitan Medical Society. Dr. Brewer received his preliminary education at the University of Cincinnati and obtained his medical degree at the University of Pennsylvania School of Medicine in 1963. He completed his residency at the University of Colorado Medical Center, Denver, CO. He specializes in pediatrics.
- **John J. Budd III, M.D.,** 9012 Manchester, Brentwood, MO 63144, has become a member of the St. Louis Metropolitan Medical Society. Dr. Budd received his preliminary education at St. Louis University and obtained his medical degree at the St. Louis University School of Medicine in 1982. He completed his residency at St. Louis University Hospital, St. Louis, MO. He specializes in internal medicine.
- **John W. Daake, M.D.,** 10004 Kennerly, Suite 260A, St. Louis, MO 63128, has become a member of the St. Louis Metropolitan Medical Society. Dr. Daake received his preliminary education at Princeton University and obtained his medical degree at the St. Louis University School of Medicine in 1975. He completed his residency at St. Louis University Hospitals, St. Louis, MO. He specializes in general surgery.
- **Daniel K. Daniels, M.D.,** 1734 E. 63rd St., Suite 208, Kansas City, MO 64110, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Daniels received his preliminary education at the University of Thessaloniki-Greece and obtained his medical degree at the Aristotelean School of Medicine in 1978. He completed his residency at the University of Virginia Hospitals, Roanoke and Salem, VA. He specializes in internal medicine.
- **Linda L. Dorzab, M.D.,** Suite 120, 1000 E. 50th St., Kansas City, MO 64110, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Dorzab received her preliminary education at the University of Missouri-Kansas City and obtained her medical degree at the UMKC School of Medicine in 1984. She completed her residency at St. Luke's Hospital, Kansas City, MO. She specializes in internal medicine.
- **Derry D. Dye, Jr., M.D.,** 686 Lester, Poplar Bluff, MO 63901, has become a member of the Butler County Medical Society. Dr. Dye received his preliminary education at the University of Missouri-Kansas City and obtained his medical degree at the UMKC School of Medicine in 1984. He completed his residency at Children's Mercy Hospital, Kansas City, MO. He specializes in pediatrics.
- **Wendall H. Elliott, Jr., M.D.,** 686 Lester St., Poplar Bluff, MO 63901, has become a member of the Butler-Wayne-Ripley-Carter Medical Society. Dr. Elliott received his preliminary education at the University of Southern Mississippi and obtained his medical degree at the University of Mississippi Medical Center. He completed his residency at Davis Grant Medical Center, Travis AFB, California. He specializes in family practice.
- **Edwin G. Farrell, M.D.,** Children's Mercy Hospital, 24th & Gillham, Kansas City, MO 64108, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Farrell received his preliminary education at Davidson College and obtained his medical degree at the University of North Carolina-Chapel Hill in 1971. He completed his residency at North Carolina Memorial Hospital, Chapel Hill, NC. He specializes in pediatrics.
- **Neil W. Frederickson, M.D.,** 1035 Bellevue, St. Louis, MO 63117, has become a member of the St. Louis Metropolitan Medical Society. Dr. Frederickson received his preliminary education at Quincy College and obtained his medical degree at the University of Missouri-Columbia in 1981. He completed his residency at the University of Kansas Medical Center, Kansas City, KS. He specializes in internal medicine.
- **Elizabeth A. Garrett, M.D.,** MA303 Health Sciences Center, Columbia, MO 65212, has become a member of the Boone County Medical Society. Dr. Garrett received her preliminary education at the University of Missouri-Columbia and obtained her medical degree at the University of Missouri-Columbia in 1979. She completed her residency at the University of Missouri, Columbia, MO. She specializes in family practice.
- **Steven D. Goodrich, M.D.,** 1465 S. Grand, St. Louis, MO 63104, has become a member of the St. Louis Metropolitan Medical Society. Dr. Goodrich received his preliminary education at Princeton University and obtained his medical degree at the University of Pennsylvania in 1979. He completed his residency at Scheie Eye Institute, Philadelphia, PA. He specializes in ophthalmology.
- **Cal W. Greenlaw, M.D.,** Hedrick Office Bldg., Suite 16, Chillicothe, MO 64601, has become a member of the Grand River Medical Society. Dr. Greenlaw received his preliminary ed-

ucation at the University of Pacific and obtained his medical degree at the American University of the Caribbean in 1984. He completed his residency at Deaconess Hospital Affiliate, St. Louis, MO. He specializes in internal medicine.

■ **Jesse C. A. Haggerty, III, M.D.,** 615 S. New Ballas Road, St. Louis, MO 63141, has become a member of the St. Louis Metropolitan Medical Society. Dr. Haggerty obtained his medical degree at Emory University School of Medicine in 1987. He is completing his internship at St. John's Mercy Medical Center, St. Louis, MO. He specializes in family practice.

■ **Eugene C. Hansbrough, M.D.,** Kneibert Clinic, 686 Lester, Poplar Bluff, MO 63901, has become a member of the Butler-Wayne-Ripley-Carter Medical Society. Dr. Hansbrough received his preliminary education at the University of Missouri-Columbia and obtained his medical degree at the University of Missouri-Columbia School of Medicine in 1982. He completed his residency at the University of Missouri, Columbia, MO. He specializes in orthopedics.

■ **Michael G. Higgins, M.D.,** P.O. Box 1330, Cape Girardeau, MO 63701, has become a member of the Cape Girardeau Area County Medical Society. Dr. Higgins received his preliminary education at Louisiana State University and obtained his medical degree at the University of Texas-San Antonio in 1981. He completed his residency at John Seally Hospital, Galveston, TX. He specializes in radiology.

■ **R. Gilbert Jost, M.D.,** Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Jost received his preliminary education at Harvard University and obtained his medical degree at Yale Medical School in 1969. He completed his residency at Mallinckrodt Institute of Radiology, St. Louis, MO. He specializes in diagnostic radiology.

■ **Cynthia Z. Kenneally, M.D.,** 621 S. New Ballas, #5018, St. Louis, MO 63141, has become a member of the St. Louis Metropolitan Medical Society. Dr. Kenneally received her preliminary education at the University of Missouri-Columbia and obtained her medical degree at the University of Missouri-Columbia School of Medicine in 1982. She completed her residency at Washington University, St. Louis, MO. She specializes in ophthalmology.

■ **Satish K. Khurana, M.D.,** Prime Health, 8630 Malsey, Lenexa, KS 66215, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Khurana received his preliminary education at the D.A.V. College-Ambala City, India and obtained his medical degree at the All India Institute of Medical Sciences in 1964. He completed his residency at Kansas University Medical Center, Kansas City, KS. He specializes in pediatrics.

■ **Herbert Lepor, M.D.,** 216 S. Kingshighway, St. Louis, MO 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Lepor received his preliminary education at the University of California-Los Angeles and obtained his medical degree at the Johns Hopkins University School of Medicine in 1979. He completed his residency at Johns Hopkins Hospital, Baltimore, MD. He specializes in urologic surgery.

■ **Jerry M. Obritsch, M.D.,** 2801 W. Broadway, #3, Columbia, MO 65201, has become a member of the Boone County Medical Society. Dr. Obritsch received his preliminary education at the University of Nebraska and obtained his medical degree at the University of North Dakota in 1987. He is completing his residency at the University of Missouri Hospital and Clinics, Columbia, MO. He specializes in obstetrics/gynecology.

■ **Robert B. Shuman, M.D.,** 4652 Maryland Ave., St. Louis, MO 63108, has become a member of the St. Louis Metropolitan Medical Society. Dr. Shuman received his preliminary education at Brandeis University and obtained his medical degree at the University of Missouri-Columbia School of Medicine in 1981. He completed his residency at Barnes Hospital, St. Louis, MO. He specializes in internal medicine.

■ **Mahaden K. Souri, M.D.,** Suite 507, 1515 W. Truman Road, Independence, MO 64055, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Souri received his preliminary education at Osmania College and obtained his medical degree at Kurnool Medical College in 1967. He completed his residency at Thomas Jefferson University Hospital, Philadelphia, PA. He specializes in neurosurgery.

■ **Frederick E. Thompson, M.D.,** 405 E. 19th Ave., North Kansas City, MO 64116, has become a member of the Clay-Platte County Medical Society. Dr. Thompson received his preliminary education at the University of Missouri-Columbia and obtained his medical degree at Chicago Medical School in 1979. He completed his residency at Truman Medical Center, Kansas City, MO. He specializes in plastic surgery.

■ **Eugene C. Wienke, Jr., M.D.,** 2040 Concourse Dr., St. Louis, MO 63146, has become a member of the St. Louis Metropolitan Medical Society. Dr. Wienke received his preliminary education at St. Louis University and obtained his medical degree at the University of Missouri-Columbia School of Medicine in 1968. He completed his residency at the University of Missouri, Columbia, MO. He specializes in pathology.

■ New Student Members

University of Missouri-Columbia

Stephen R. Adams
Melinda A. Allsbury
Joseph A. Beckmann
Jean E. Birmingham
Ann C. Borgmeyer
Damon C. Clines
Scott C. Dulebohn
Timothy L. Duniho
Dayna S. Early
Laura S. Evans
Richard A. Hack
M. Kathlyne Heilman
Joseph T. Hilgeman
Scott F. Howe
Debra Howenstine
Steven R. Hughes
Sangeeta Jain
Thomas F. Landholt, Jr.
Melanie K. McCleave
Nanette S. Nuessle
Christopher M. Oermann
Jeffrey A. Riesman
Sarah L. Schenkier
Morris H. Seligman

Washington University

R. Mark Brady
Kimberly S. Graves-Quayle
Steven D. Rettinger
Michael K. Thornton
Jeffrey R. Zohner

St. Louis University

David K. Beato
Daniel C. Cook

University of Missouri-Kansas City

Danita L. Cole

In Memoriam

■ **Bruce V. Drowns, M.D.,** died July 27, 1987 at the age of 67. Dr. Drowns, a dermatologist, practiced in Kansas City for 30 years before retiring in 1982. He obtained his medical degree at the University of Kansas Medical School in 1945. Dr. Drowns was a member of the Metropolitan Medical Society of Greater Kansas City.

■ **Carl M. Fellhauer, M.D.,** died August 20, 1987 at the age of 74. Dr. Fellhauer, an orthopedic surgeon, served on the staffs of Cardinal Glennon Children's Hospital and St. Mary's Health Center, where he received the Spirit Award for his years of service. He retired in 1985, but maintained his clinical teaching assignments at St. Louis University. He obtained his medical degree at St. Louis University in 1944. Dr. Fellhauer was a member of the St. Louis Metropolitan Medical Society.

■ **William B. Harkins, M.D.,** died August 23, 1987 at the age of 76. Dr. Harkins, an otolaryngologist, practiced medicine in St. Louis for over 40 years before retiring in 1978. He began teaching otolaryngology in 1941 at St. Louis University and became head of the department in 1960. He obtained his medical degree at Johns Hopkins University Medical School in 1935. Dr. Harkins was a member of the St. Louis Metropolitan Medical Society.

■ **Jacob S. Hoffman, M.D.,** died July 24, 1987 at the age of 79. Dr. Hoffman, an internist, was born in Poland and lived in Kansas City for 40 years before moving to Los Angeles in 1982. He obtained his medical degree at the University of Wisconsin School of Medicine in 1939. Dr. Hoffman was a member of the Metropolitan Medical Society of Greater Kansas City.

■ **R. Hamilton Staton, M.D.,** died July 23, 1987 at the age of 84. Dr. Staton, a general practitioner, practiced medicine in Carrollton for 53 years before retiring in 1985. He founded the Staton Clinic and Hospital in Carrollton in 1937. He obtained his medical degree at the University of Arkansas Medical School in 1932. Dr. Staton was a member of the Grand River County Medical Society.

■ **Barrett L. Taussig, M.D.,** died September 7, 1987 at the age of 81. Dr. Taussig, an internist, practiced medicine in St. Louis for 50 years before retiring in 1977. He was on the teaching staff of Washington University School of Medicine and was also on the staffs of Jewish and Barnes Hospitals. He obtained his medical degree at Washington University School of Medicine in 1932. Dr. Taussig was a member of the St. Louis Metropolitan Medical Society.

■ **C. Leslie Thompson, M.D.,** died July 30, 1987 at the age of 63. Dr. Thompson, an internist, practiced medicine in the Kansas City area before retiring in 1984. He was a staff internist at St. Luke's Hospital and chief of staff of Kansas City General Hospital from 1971 to 1972. He was also a Navy veteran of World War II, serving as captain of a PT boat. He obtained his medical degree at Creighton University School of Medicine in 1952. Dr. Thompson was a member of the Metropolitan Medical Society of Greater Kansas City.

■ **Walter W. Tillman, Jr., M.D.,** died June 21, 1987 at the age of 71. Dr. Tillman, an anesthesiologist, practiced medicine in Springfield for over 30 years before retiring in 1984. He served as president of the Greene County Medical Society in 1960. He obtained his medical degree at Washington University School of Medicine in 1942. Dr. Tillman was a member of the Greene County Medical Society.

■ **Franklin H. Wakefield, M.D.,** died August 25, 1987 at the age of 87. Dr. Wakefield, a surgeon, practiced medicine in Kansas City for 40 years before retiring in 1968. He was a captain in the Army medical corps in World War II from 1942 to 1945. He obtained his medical degree at Northwestern University School of Medicine in 1927. Dr. Wakefield was a member of the Metropolitan Medical Society of Greater Kansas City.

Myths
or **Facts?**

- Even moderate social drinkers may risk liver damage.
- Women are more likely to suffer liver damage from alcohol than men.
- Most victims of liver disease are *not* alcoholics.

All three statements are *true.*

How many did you get right?

Many people are confused about the effects of alcohol on the liver—and *what you don't know can hurt you.*

A pamphlet on *myths* and *facts* tells what you can do to protect yourself and your loved ones. For your free copy, send a stamped self-addressed business envelope to:

alf american liver foundation

American Liver Foundation
Box AL
Cedar Grove,
N.J. 07009

LIBRIUM® Ⓒ
chlordiazepoxide HCl/Roche
5-mg, 10-mg, 25-mg capsules
Before prescribing, please consult complete product information, a summary of which follows:

Indications: Management of anxiety disorders; short-term relief of anxiety symptoms, acute alcohol withdrawal symptoms, preoperative apprehension and anxiety. Usually not required for anxiety or tension associated with stress of everyday life. Efficacy beyond four months not established by systematic clinical studies. Periodic reassessment of therapy recommended.

Contraindications: Known hypersensitivity to the drug.

Warnings: Warn patients that mental and/or physical abilities required for tasks such as driving or operating machinery may be impaired, as may be mental alertness in children, and that concomitant use with alcohol or CNS depressants may have an additive effect. Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage. Withdrawal symptoms (including convulsions) reported after abrupt cessation of extended use of excessive doses are similar to those seen with barbiturates. Milder symptoms reported infrequently when continuous therapy is abruptly ended. Avoid abrupt discontinuation; gradually taper dosage.

> ***Usage in Pregnancy:* Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically. Due to isolated reports of exacerbation, use with caution in patients with porphyria.

Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.

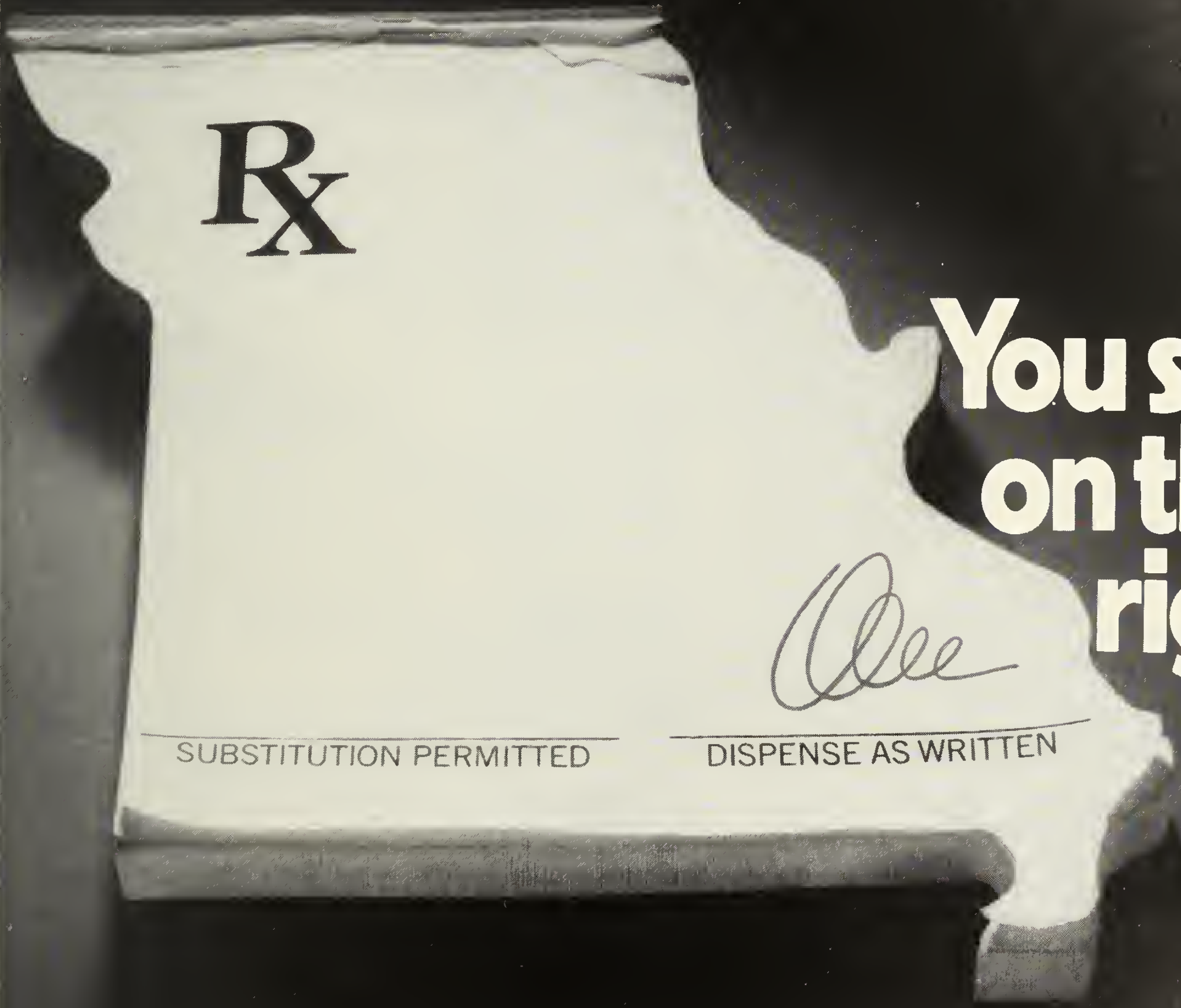
Usual Daily Dosage: Individualize for maximum beneficial effects. *Oral—Adults:* Mild and moderate anxiety disorders and symptoms, 5 or 10 mg *t.i.d.* or *q.i.d.*; severe states, 20 or 25 mg *t.i.d.* or *q.i.d.* *Geriatric patients:* 5 mg *b.i.d.* to *q.i.d.* (See Precautions.)

Supplied: Librium® (chlordiazepoxide HCl/Roche) *Capsules,* 5 mg, 10 mg and 25 mg—bottles of 100 and 500; Tel-E-Dose® packages of 100, available in boxes of 4 reverse-numbered cards of 25, and in boxes containing 10 strips of 10. Libritabs® (chlordiazepoxide/Roche) *Tablets,* 5 mg and 10 mg—bottles of 100 and 500; 25 mg—bottles of 100. With respect to clinical activity, capsules and tablets are indistinguishable.
PI 0286

ROCHE®
Roche Products Inc.
Manati, Puerto Rico 00701

In Missouri, when you decide to prescribe Librium,

To protect your decision...


Rx
SUBSTITUTION PERMITTED
DISPENSE AS WRITTEN

You sign on the right.

Librium® 5-mg, 10-mg, 25-mg capsules
brand of
chlordiazepoxide HCl/Roche Ⓒ

nobody does it better!

ROCHE®

Copyright © 1987 by Roche Products Inc. All rights reserved.

Please see adjacent page for a summary of product information.

Missouri Department of Health
HIV ANTIBODY COUNSELING AND TESTING SITES

St. Joseph
St. Joseph/Buchanan Co. Health Dept.
904 S. 10th Street, (Patee Hall)
St. Joseph, MO 64503
Terri Dixon, R.N.
Phone: 816/271-4725

Kansas City
Kansas City Free Clinic
5119 East 24th Street
Kansas City, MO 64127
Randy Gould, Administrator
Phone: 816/231-8895

Independence
Jackson County Health Department
313 S. Liberty
Independence, MO 64050
Marilyn Burkett, R.N.
Phone: 816/881-4424

Marshall
Saline County Nursing Service
76 West Arrow
Marshall, MO 65340
Billie Vardiman, R.N.
Phone: 816/886-3434

Joplin
Joplin City Health Department
513 Kentucky Avenue
Joplin, MO 64801
June Tatman, R.N.
Phone: 417/623-6122

Springfield
Springfield/Greene County Health Dept.
227 E. Chestnut Expressway
Springfield, MO 64802
Maureen Miller, R.N.; Desa Beezley, R.N.
Phone: 417/864-1686

Cape Girardeau
Cape Girardeau Nursing Service
44 North Lorimer
Cape Girardeau, MO 63701
Charlotte Craig, R.N.
Phone: 314/335-7846

Macon
Macon County Health Department
1131 Jackson
Macon, MO 63552
Grace Osman, R.N.
Phone: 816/385-4711

Columbia
Columbia/Boone County Health Dept.
600 East Broadway
Columbia, MO 65205
Linda Hancik, R.N.
314/874-7355

Jefferson City
Cole County Health Department
210 Adams Street
Jefferson City, MO 65101
Ivah Braun, R.N.
Phone: 314/636-2181

Flat River
St. Francois County Health Department
1025 West Main Street
Flat River, MO 63601
Jane Hartrup, R.N.
Phone: 314/431-1947

Poplar Bluff
Butler County Health Department
1618 N. Main Street
Poplar Bluff, MO 63901
Vicky Sparkman, R.N.
Phone: 314/785-8478 or 8479

St. Louis
Magdala Foundation
4158 Lindell Blvd.
St. Louis, MO 63108
Gwen Whiteside
Phone: 314/652-6004

St. Louis City Division of Health (opens 10/87)
634 North Grand
St. Louis, MO 63178
Phone: 314/658-1054

St. Louis County Health Dept. (opens 10/87)
801 S. Brentwood Blvd.
Clayton, MO 63105
Phone: 314/854-6000

For more information, contact:
Missouri Department of Health
Bureau of AIDS Prevention
P. O. Box 570
Jefferson City, MO 65102
314/751-6438

Classifieds

CLASSIFIED ADVERTISING INFORMATION

Rates: $15 per insertion for 50 words or less for members and $25 per insertion for 50 words or less for nonmembers, with an additional 25¢ per word in excess of 50.

Copy Deadline: Copy due by the first of the month prior to month of publication. Send to MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City 65102.

Word Count: Count as one word all single words, two initials of a name, each abbreviation, isolated numbers, groups of numbers, hyphenated words. Count file numbers as five words.

File Numbers — Advertisers using file numbers forbid disclosure of their identity. Written inquiries are forwarded to such advertisers. To assure prompt delivery when replying to an advertisement with a Journal file number, address letters as follows: File (insert number), c/o Missouri State Medical Association, P.O. Box 1028, Jefferson City, Mo. 65102.

All advertisements are subject to approval by the Editorial Board prior to acceptance.

Physicians Wanted

One Psychiatrist — needed to complement a team of dynamic psychiatrists and general physicians. Located 65 miles south of St. Louis on Highway 67, our hospital has 318 beds. We are looking for Board Certified or Eligible specialists. Remuneration will range from $67,000 up, depending on years of experience, Board Certification and optional on-call days. Fringe benefits come to an additional 35% of the salary which includes vacation time, sick time, CME allowance, health insurance and life insurance. For detailed information, please write to: Adolph J. Herath, M.D., Medical Director, Farmington State Hospital, Farmington, MO 63640 or call 314/756-6792, extension 347.

Emergency Medicine in IL and MO — Full and part-time positions available in emergency departments and clinics for qualified physicians seeking lucrative employment opportunities. Outstanding remuneration and comprehensive malpractice insurance provided. For further information contact: Deborah Bergun, staffing specialist. National Emergency Services, Inc., 255 Executive Dr., Suite 104, Plainview, NY 11803 or call 1-800-645-4848 or 516/349-0100.

Occupational Medicine Physician — to join a well-established group practice serving more than 200 industries. Excellent compensation and full partnership potential. Responsibilities include primary care, treating workmen's comp injuries, disability evaluations, medical surveillance, and developing and implementing occupational medical programs for various industries. Should be board certified/eligible, M.D. Send C.V. to: William R. Green, M.D., Macon Medical Center, 7200 Manchester, St. Louis, MO 63143, or call 314/645-7744.

Psychiatrist wanted to work in established private practice with office locations in Creve Coeur and Florissant, Missouri. Responsibilities include outpatient and hospital rounds. Part-time and full-time positions available. Excellent financial package as well as opportunity to form long-term relationship. Please contact John at 314/993-8950.

Emergency Medicine. Our 264 bed regional medical center is seeking an emergency physician who is preferably board certified/prepared. We offer the chance to practice in a newly built Level II trauma center and remodeled ED department with 12,000 patient visits/year. Highly competitive salary and benefits package greater than 100K. Cape Girardeau, university city of 40,000, is the largest center for health care, retail trade, cultural activities, and entertainment between St. Louis and Memphis. Excellent school systems and superb recreational activities are available. Send CV to David Trantham, M.D., FACEP, 3201 Lakewood, Cape Girardeau, MO 63701; or call 314/651-6110.

Board Eligible/Certified Internist position is available at the John J. Pershing VA Medical Center located in the scenic Ozark foothills of the southeast Missouri city of Poplar Bluff, which has a very reasonable cost of living, good local schools including a junior college, moderate climate. Applicants must possess a current and unrestricted license to practice medicine. No malpractice insurance is needed as physicians in the VA are covered by Federal Torts Act. Good benefits such as a retirement plan, low cost health/life insurance, government matched thrift savings plan, and excellent vacation/sick leave. Salary of $70,000-$76,000 per annum based upon experience, training, and board certification. U.S. Citizen must be given first consideration, but physicians with permanent or immigrant visas may also be considered. Interested physicians should contact Don L. Andrus, M.D., Chief of Staff, John J. Pershing VA Medical Center, 1500 N. Westwood Blvd., Poplar Bluff, MO 63901, or telephone 314/686-4151, ext. 201. AN EQUAL OPPORTUNITY EMPLOYER.

Internist BC/BE with or without subspecialty to join five-physician single specialty group practice in S.W. Missouri serving a population of 1,000,000+. Excellent opportunity with competitive salary guaranteed plus incentive bonus. Malpractice and excellent benefits paid; opportunity for ownership. Pleasant recreational environment in the Ozarks. Please call or mail CV to Administrator, The Diagnostic Clinic, 3443 South National, Springfield, MO 65807. 417/883-3443.

Healthline Physician Services, an affiliate of St. Louis University Medical Center, has part-time and full-time opportunities available for physicians in Emergency Department, Clinic, and Locum Tenens work. We are presently recruiting for emergency departments in St. Louis city and metropolitan area. Excellent compensation, flexible schedules, administrative opportunities and benefits, no "on-call" responsibilities and a challenging medical environment. If you are just starting out, looking for a career change, or want to supplement your income from another source please contact: Barry Trautman, Healthline Physician Services, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Family Physician Needed — Immediate need for BC/BE family physician to join 2 established family physicians in private practice in N.W. Iowa community of 5,000. Modern clinic across the street from JCAH hospital. Excel-

Physician Wanted

lent salary and fringe benefits with partnership opportunity. Locum tenens opportunity available also. Call collect 712/324-2511 or contact Sheldon Family Practice Associates, 206 N. 7th Ave., Sheldon, Iowa 51201.

Full-Time Private Practice Opportunities from Healthline Physician Services, an affiliate of St. Louis University Medical Center, for the following specialties: Board Eligible or Board Certified Internal Medicine, and Board Certified Family Practice, Pediatrics and OB-GYN. Positions include income guarantee and no capital investment. For more information contact: Barry Trautman, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Pediatrician, Family Practice, OB/GYN, General Internist & ENT — needed for two-hospital, historic river town of 20,000. Drawing area of approximately 60,000 with new 19,000 acre recreational lake. Unlimited potential. Contact: Carol Neil, Physician Recruitment, 623 Broadway, Hannibal, MO 63401 or call 314/221-3107.

Medical Consultants: Physicians needed to work under contract for Disability Determination Services, State of Missouri. The position involves review of medical evidence in Social Security disability claims. Work performed at state offices during normal working hours. No patient care involved. Specialties needed: internal medicine, psychiatry, and family practice. Openings in St. Louis, Cape Girardeau and Springfield. $42.00 per hour. Contact Neil Scully, Disability Determinations, 2401 E. McCarty, Jefferson City, Missouri 65101, 314/751-2890.

Positions Wanted

Position wanted. Board Certified Cardiologist (internist) Invasive — Non Invasive, Missouri licensed, wishes to join group, hospital, industry, company, etc. Reply to Box No. 8, c/o MSMA, P.O. Box 1028, Jefferson City, MO 65102.

Practice For Sale

General ophthalmological practice for sale. Area — Liberty, MO near two modern hospitals and a college. Established medical/surgical practice. Liberal terms are negotiable. Please call: Michael E. Castillo, M.D., 816/781-9120 or 816/587-8075.

Rheumatology practice for sale. — St. Louis. In practice 33 years. Retiring. Purchase price payable over 3 years. Will introduce. Letters of inquiry with CV to File #1, c/o Missouri Medicine, 113 Madison, P.O. Box 1028, Jefferson City, MO 65102.

Private Practice Opportunities: Family Practice and Internal Medicine, no cash outlay, attractive salary, excellent incentive compensation, liberal benefits including malpractice. Prospective for OB/GYN, Pediatrics, Psychiatry. Send C.V. to Don Hoit, Farris & Associates, Inc., 16216 Baxter Road, Suite 200, Chesterfield, MO 63017 (314) 532-4880.

Practice Wanted

Board certified psychiatrist wants to buy a psychiatric practice in St. Louis Metropolitan area. Please reply c/o Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102, File #10.

House for Rent

Vacation Rentals — Snowmass, Colorado. House, 3 bedrooms, 3 baths, fully-equipped, 5 minutes from ski lifts. Rent direct from owner and save 35%. Contact R. N. Barr, M.D., 7301 Mission Rd., Prairie Village, Kansas 66208, or call evenings 913/649-1277.

Career Opportunities in Emergency Medicine

Medical directorships and full-time staff positions are currently available *throughout Missouri.* Choose hospital emergency department or urgent care setting.

- **St. Louis and surrounding communities**
- **Excelsior Springs**
- **Jefferson City**

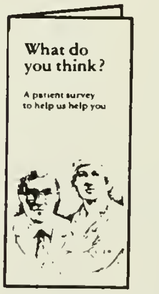
Guaranteed competitive rate of reimbursement, occurrence malpractice insurance coverage and CME allowance.

Part-time opportunities are also available.

For information on opportunities available throughout Missouri, contact:

Bill Salmo
Spectrum Emergency Care, Inc.
P.O. Box 27352
St. Louis, MO 63141
1-800-325-3982 314-878-2280

How do you rate?


What do you think?
A patient survey to help us help you

How do your patients view your practice, your office staff and routines, your appointment scheduling?

The MSMA's Patient Survey Brochure is a small, concise, yet useful survey you can enclose with patient billings or place with waiting room reading material. The opinions your patients can provide may help you make definite practice-building decisions.

Available from **MSMA Communications, P.O. Box 1028, Jefferson City, MO 65102**
Cost: 10¢ each, or write for a free sample copy.

See the difference in the first week[1]

- **Sleep improvement in 74% of patients after first h.s. dose[2]**
- **Significantly faster relief–62% of total four-week improvement evident in first week versus 44% with amitriptyline alone[1]**
- **Dramatic first-week reduction in somatic complaints[2]**

% Reduction in Somatic Symptoms[2]

Vomiting	Nausea	Headache	Anorexia	Constipation
Reduced 90%	Reduced 86%	Reduced 72%	Reduced 62%	Reduced 60%

- **Only ⅓ the dropout rate due to side effects of amitriptyline alone, although the incidence of side effects is similar[1]**

Caution patients about the combined effects of Limbitrol with alcohol or other CNS depressants and about activities requiring complete mental alertness, such as operating machinery or driving a car. In general, limit dosage to the lowest effective amount in elderly patients.

Protect your decision.
Write "Do not substitute."

In moderate depression and anxiety

Limbitrol®

Each tablet contains 5 mg chlordiazepoxide and 12.5 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

Limbitrol® DS

Each tablet contains 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

Copyright © 1987 by Roche Products Inc. All rights reserved.

References: 1. Feighner JP, *et al: Psychopharmacology 61* 217-225, Mar 22, 1979 **2.** Data on file, Hoffmann-La Roche Inc., Nutley, NJ

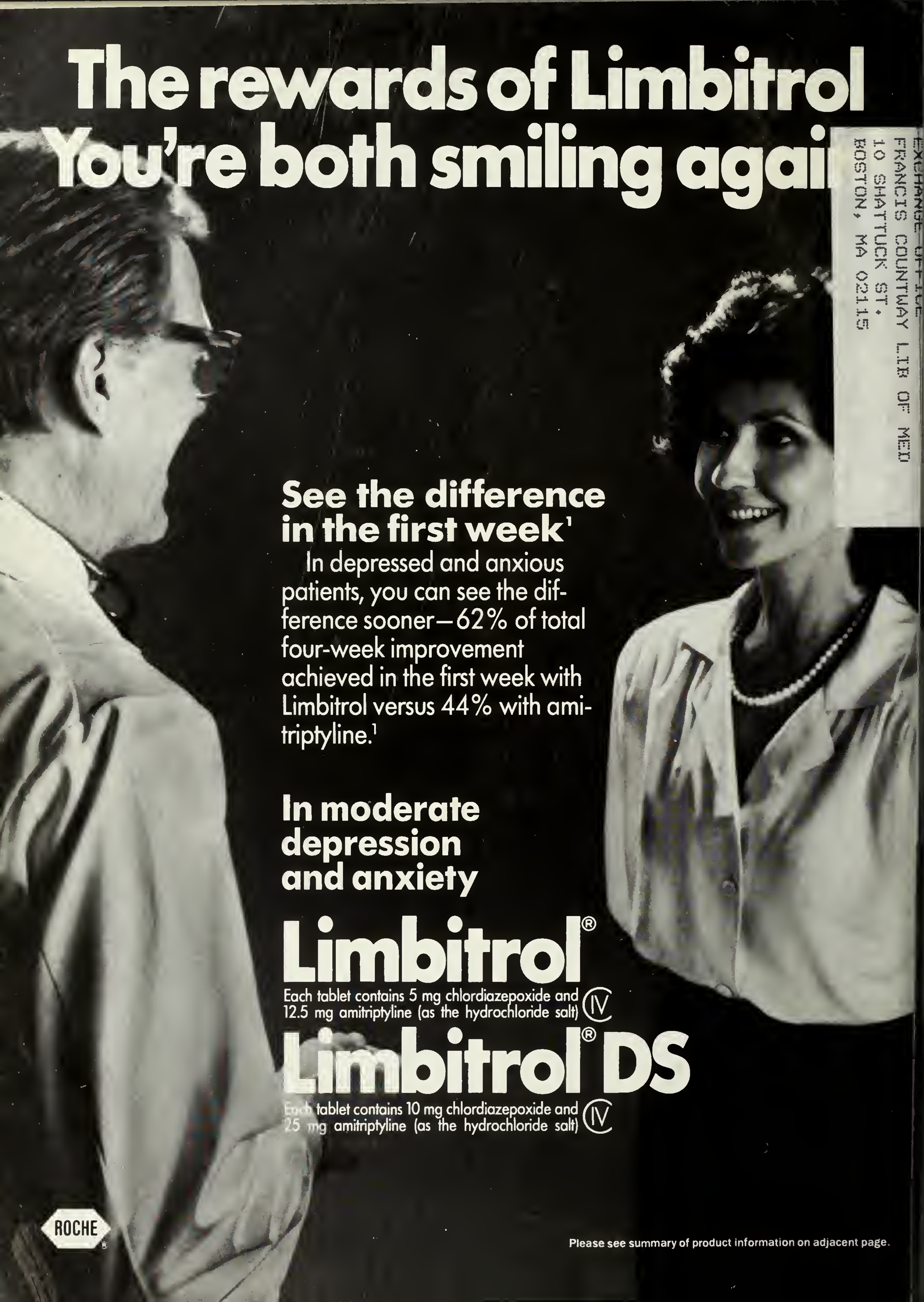
Limbitrol® Ⓒ IV
Tranquilizer—Antidepressant
Before prescribing, please consult complete product information, a summary of which follows:
Indications: Relief of moderate to severe depression associated with moderate to severe anxiety
Contraindications: Known hypersensitivity to benzodiazepines or tricyclic antidepressants Do not use with monoamine oxidase (MAO) inhibitors or within 14 days following discontinuation of MAO inhibitors since hyperpyretic crises, severe convulsions and deaths have occurred with concomitant use, then initiate cautiously, gradually increasing dosage until optimal response is achieved Contraindicated during acute recovery phase following myocardial infarction.
Warnings: Use with great care in patients with history of urinary retention or angle-closure glaucoma. Severe constipation may occur in patients taking tricyclic antidepressants and anticholinergic-type drugs Closely supervise cardiovascular patients (Arrhythmias, sinus tachycardia and prolongation of conduction time reported with use of tricyclic antidepressants, especially high doses. Myocardial infarction and stroke reported with use of this class of drugs) Caution patients about possible combined effects with alcohol and other CNS depressants and against hazardous occupations requiring complete mental alertness (e g , operating machinery, driving)

> ***Usage in Pregnancy:* Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Since physical and psychological dependence to chlordiazepoxide have been reported rarely, use caution in administering Limbitrol to addiction-prone individuals or those who might increase dosage, withdrawal symptoms following discontinuation of either component alone have been reported (nausea, headache and malaise for amitriptyline, symptoms [including convulsions] similar to those of barbiturate withdrawal for chlordiazepoxide)
Precautions: Use with caution in patients with a history of seizures, in hyperthyroid patients or those on thyroid medication, and in patients with impaired renal or hepatic function. Because of the possibility of suicide in depressed patients, do not permit easy access to large quantities in these patients Periodic liver function tests and blood counts are recommended during prolonged treatment Amitriptyline component may block action of guanethidine or similar antihypertensives When tricyclic antidepressants are used concomitantly with cimetidine (Tagamet), clinically significant effects have been reported involving delayed elimination and increasing steady state concentrations of the tricyclic drugs. Concomitant use of Limbitrol with other psychotropic drugs has not been evaluated, sedative effects may be additive Discontinue several days before surgery Limit concomitant administration of ECT to essential treatment See Warnings for precautions about pregnancy Limbitrol should not be taken during the nursing period Not recommended in children under 12 In the elderly and debilitated, limit to smallest effective dosage to preclude ataxia, oversedation, confusion or anticholinergic effects
Adverse Reactions: Most frequently reported are those associated with either component alone drowsiness, dry mouth, constipation, blurred vision, dizziness and bloating Less frequently occurring reactions include vivid dreams, impotence, tremor, confusion and nasal congestion Many depressive symptoms including anorexia, fatigue, weakness, restlessness and lethargy have been reported as side effects of both Limbitrol and amitriptyline Granulocytopenia, jaundice and hepatic dysfunction have been observed rarely
The following list includes adverse reactions not reported with Limbitrol but requiring consideration because they have been reported with one or both components or closely related drugs.
Cardiovascular Hypotension, hypertension, tachycardia, palpitations, myocardial infarction, arrhythmias, heart block, stroke
Psychiatric Euphoria, apprehension, poor concentration, delusions, hallucinations, hypomania and increased or decreased libido
Neurologic Incoordination, ataxia, numbness, tingling and paresthesias of the extremities, extrapyramidal symptoms, syncope, changes in EEG patterns
Anticholinergic Disturbance of accommodation, paralytic ileus, urinary retention, dilatation of urinary tract
Allergic Skin rash, urticaria, photosensitization, edema of face and tongue, pruritus
Hematologic Bone marrow depression including agranulocytosis, eosinophilia, purpura, thrombocytopenia.
Gastrointestinal Nausea, epigastric distress, vomiting, anorexia, stomatitis, peculiar taste, diarrhea, black tongue
Endocrine Testicular swelling and gynecomastia in the male, breast enlargement, galactorrhea and minor menstrual irregularities in the female, elevation and lowering of blood sugar levels, and syndrome of inappropriate ADH (antidiuretic hormone) secretion
Other Headache, weight gain or loss, increased perspiration, urinary frequency, mydriasis, jaundice, alopecia, parotid swelling
Overdosage: Immediately hospitalize patient suspected of having taken an overdose Treatment is symptomatic and supportive I V administration of 1 to 3 mg physostigmine salicylate has been reported to reverse the symptoms of amitriptyline poisoning See complete product information for manifestation and treatment
Dosage: Individualize according to symptom severity and patient response Reduce to smallest effective dosage when satisfactory response is obtained Larger portion of daily dose may be taken at bedtime Single *h s* dose may suffice for some patients Lower dosages are recommended for the elderly Limbitrol DS (double strength) Tablets, initial dosage of three or four tablets daily in divided doses, increased up to six tablets or decreased to two tablets daily as required Limbitrol Tablets, initial dosage of three or four tablets daily in divided doses, for patients who do not tolerate higher doses
How Supplied: *Double strength (DS) Tablets,* white, film-coated, each containing 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt), and *Tablets,* blue, film-coated, each containing 5 mg chlordiazepoxide and 12 5 mg amitriptyline (as the hydrochloride salt) Available in bottles of 100 and 500, Tel-E-Dose® packages of 100, Prescription Paks of 50

ROCHE®
ROCHE PRODUCTS INC
Manati, Puerto Rico 00701

P I 0585



The rewards of Limbitrol You're both smiling agai

EXCHANGE OFFICE
FRANCIS COUNTWAY LIB OF MED
10 SHATTUCK ST.
BOSTON, MA 02115

See the difference in the first week[1]

In depressed and anxious patients, you can see the difference sooner—62% of total four-week improvement achieved in the first week with Limbitrol versus 44% with amitriptyline.[1]

In moderate depression and anxiety

Limbitrol®

Each tablet contains 5 mg chlordiazepoxide and 12.5 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

Limbitrol® DS

Each tablet contains 10 mg chlordiazepoxide and 25 mg amitriptyline (as the hydrochloride salt) Ⓒ IV

ROCHE®

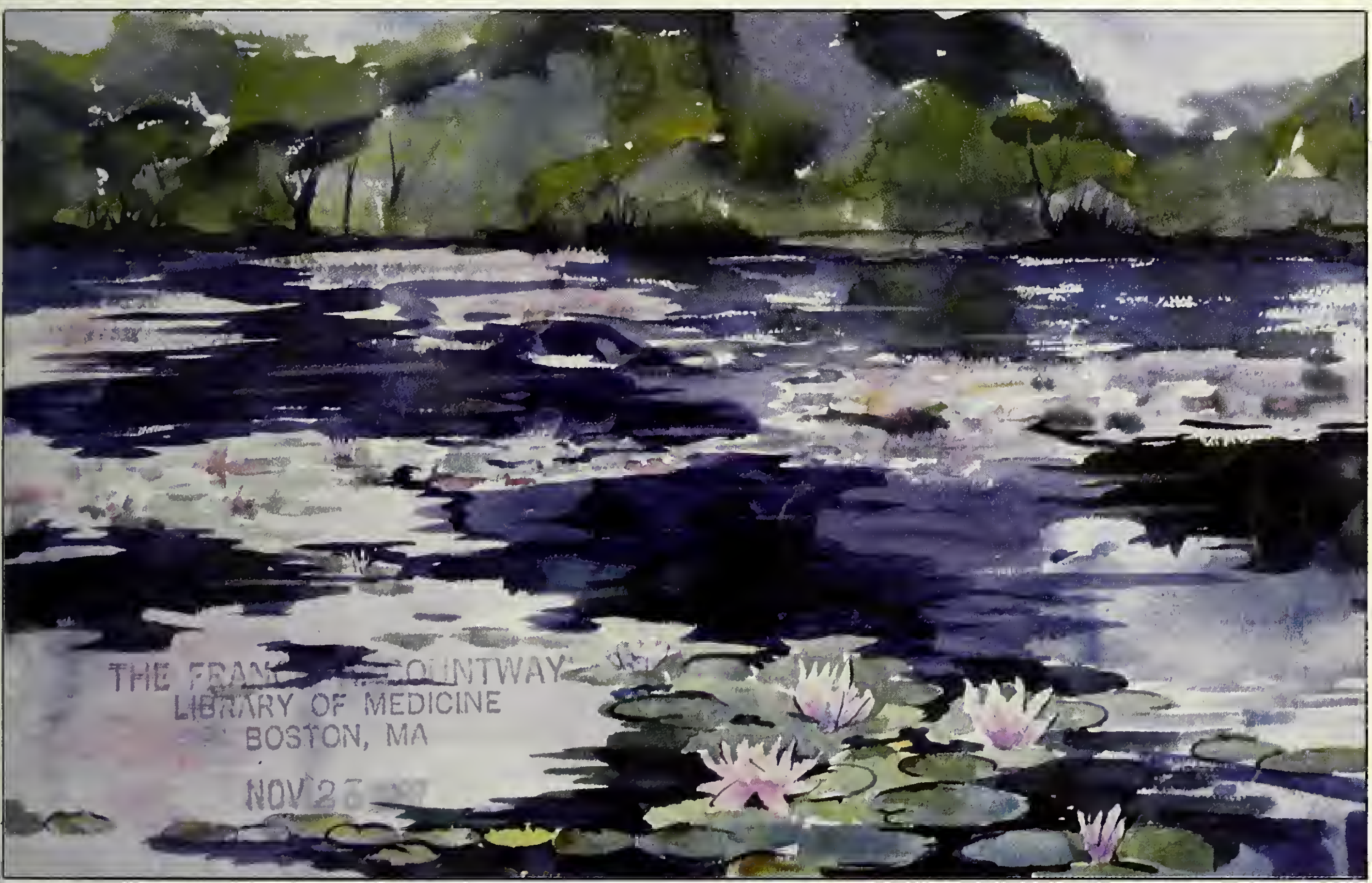
Please see summary of product information on adjacent page.

[redacted]

Missouri Medicine

Journal of the Missouri State Medical Association

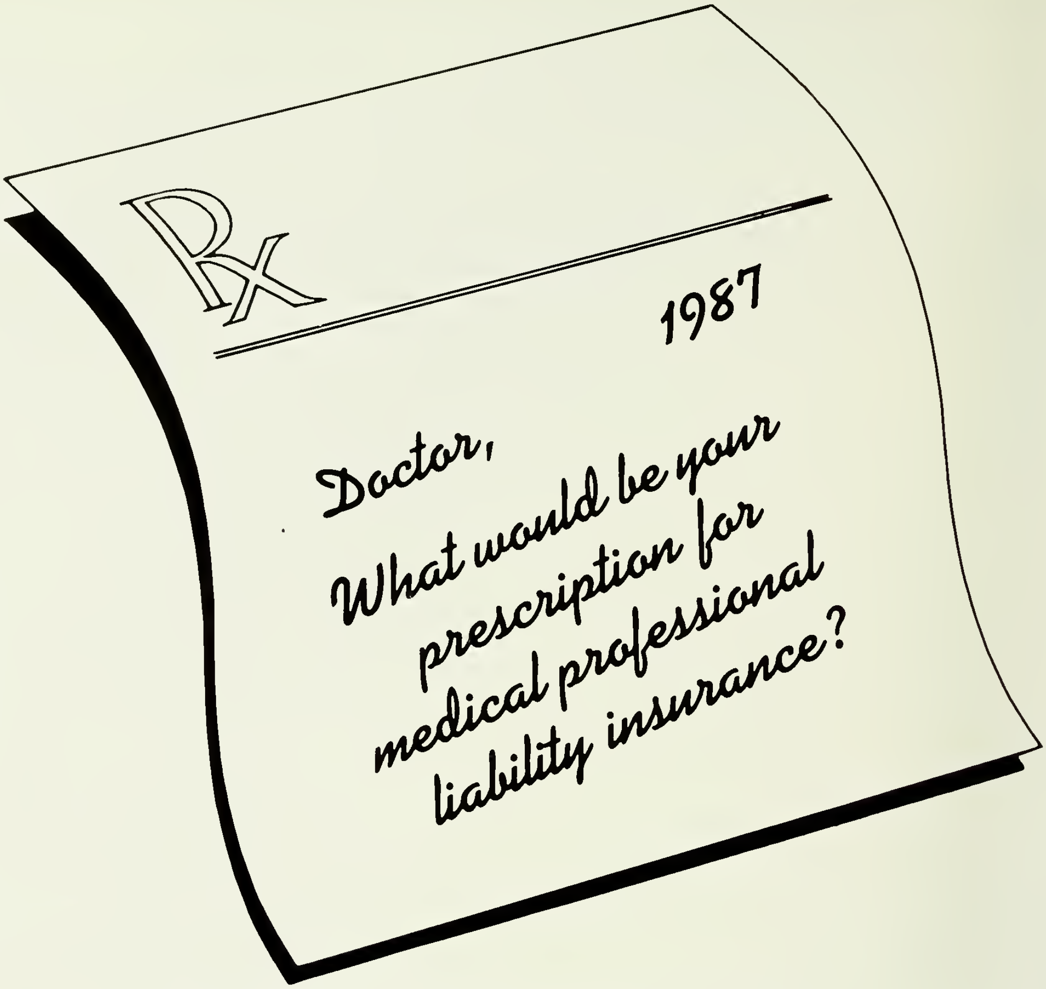
November 1987



THE FRAN[illegible] COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA
NOV 2[illegible]

In this issue:

- Leprosy in Missouri
- The Changing Face of Leukocytosis
- Thermography of the Curved Living Skin Surface


Rx
1987
Doctor,
What would be your
prescription for
medical professional
liability insurance?

The Missouri State Medical Association
prescribes

MOMEDICO

- Stock insurance company
- Non-assessable
- Primarily Physician owned and operated

Better Protection. Together.

10795 Watson Road, St. Louis, MO 63127
314-965-1003 or toll free 800-392-8039

Jefferson City Office, 113 Madison
Jefferson City, MO 65101, 314-634-8090

Kansas City Office, 9229 Ward Parkway, Suite 290
Kansas City, MO 64114, 816-363-6161

Founded by the Missouri State Medical Association

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA

NOV 23 1987

Contents

ON CALL

Missouri State Medical Association
314/636-5151
American Medical Association
312/645-5000
MSMA Physician Rehabilitation Hotline
816/531-1258
MOMEDICO
1-800-392-8039
Dobson Insurance Group
1-800-892-3432
MSMA Retirement Plan/ E. F. Hutton
(Call collect) 314/725-9690
Forrest T. Jones
1-800-892-7272
Fred S. James
Kansas City 816/842-6670
St. Louis 314/863-7777
Health Care Financing Administration
816/374-5233
Intrav
314/727-0500
Medicaid Provider Relations
1-800-392-0938
Medicare Provider Relations
1-800-392-3070
Medicare Part B Blue Cross Blue Shield
Kansas City
1-800-654-9629
Missouri Department of Health
314/751-6400
Missouri Department of Social Services
314/751-2086
Missouri Patient Care Review Foundation
(Preadmission) 1-800-392-8060
(General Info) 1-800-392-1312
Missouri State Bureau of Narcotics and Dangerous Drugs
314/751-8042
Missouri State Board of Registration of the Healing Arts
314/751-2334

Cover

"Lillies No. One," by John William Fries, M.D., of *St. Louis.* This painting demonstrates the wet watercolor technique. Dr. Fries is clinical professor of radiology at St. Louis University School of Medicine as well as the medical director of radiology at St. Anthony's Medical Center.

Special Feature Article

693 **William D. Bradshaw, M.D.: PRO Medicine**
Susan Flanigan Gold, Managing Editor

Scientific Articles

697 **The Changing Face of Leukocytosis**
Nancy J. Walker and Michael C. Perry, M.D.
Columbia, Missouri
699 **Leprosy in Missouri**
T. Ulf Westblom, M.D., *Huntington, West Virginia*
James A. Roller, M. D., *Columbia, Missouri*
702 **Thermography of the Curved Living Skin Surface**
Charles J. Ash, M.D., Edward Gotti, M.D., and
Chris H. Haik, R.N.
Springfield, Missouri

Departments

683 Progress Notes
687 Editor's Desk
689 Auxiliary Message
691 Practice Management
713 Medical School News
717 Physician's Recognition Award
717 In Memoriam
719 Information for Contributors
719 Index to Advertisers
721 New Members
724 Continuing Medical Education
725 Classifieds

Million/Million Coverage
All Medical Classes
Occurrence & Claims-Made

- Many malpractice insurors have liability limits of $200,000 to $600,000. Many offer coverage to only some medical classes. Risk Control Associates offers "Million/Million" coverage on *all* medical classes at highly competitive rates.
- Risk Control Associates is a company established and owned by physicians. As specialists in the professional liability insurance industry, we are dedicated to serving the special needs of physicians.
- In response to those needs, we offer both *Occurrence* and *Claims-Made* policies and a complete range of support services. It is our commitment to specialization that allows us to achieve excellence in risk selection, risk management, claims management, and physician defense.
- Risk Control Associates presently represents over 1,000 physicians in Missouri and, unlike most medical liability insurors, we are continuing to expand.
- For a quotation on our exceptional insurance products and support services, call 1-800-422-5122 or 417-862-0650.

RISK CONTROL
ASSOCIATES, INC.
MEDICAL LIABILITY INSURORS

1111 South Glenstone • Springfield, Missouri 65804

Physicians Helping Physicians

A Missouri Mutual Assessable
Chapter 383 Company

Missouri Medicine

Vol. 84, No. 11 *Journal of the Missouri State Medical Association* November 1987

Editor
Jordan W. Burkey, M.D.
Associate Editor
Donald G. Sessions, M.D.
Managing Editor
Susan Flanigan Gold
Business Manager
Royal O. Cooper
Editorial Assistant
Valerie Peters

EDITORIAL BOARD

Anesthesiology
George P. Hoech, Jr., M.D.
Cardiovascular Surgery
Jack J. Curtis, M.D.
Dermatology
Philip C. Anderson, M.D.
Ernest Lorenc, M.D.
Emergency Medicine
David M. Trantham, M.D.
Family Practice
William D. Bradshaw, M.D.
Carl R. Kruse, M.D.
Kirby L. Turner, M.D.
Gastroenterology
Jay P. Marshall, II, M.D.
Internal Medicine
John S. Daniels, M.D.
Stephen Hamburger, M.D.
Robert K. Skillman, M.D.
Neonatology
Elizabeth J. James, M.D.
Neurosurgery
Keith Rich, M.D.
Obstetrics and Gynecology
Thomas M. Mier, M.D.
Oncology
Michael C. Perry, M.D.
Ophthalmology
John C. Hagan, III, M.D.
F. Thomas Ott, M.D.
Orthopedics
Raymond A. Ritter, Jr., M.D.
Pathology
Eugene F. Tucker, M.D.
Pediatrics
R. Don Blim, M.D.
Psychiatry
William F. Clary, M.D.
Radiation Therapy
MacDonald B. Logie, M.D.
Radiology
Frederick M. Brandon, M.D.
Donald R. Germann, M.D.
General Surgery
Richard O. Craig, M.D.
Donald Silver, M.D.
Urology
Gilbert Ross, Jr., M.D.

PUBLICATIONS COMMITTEE

Chairman
Jordan W. Burkey, M.D.
Vice-Chairman
Donald G. Sessions, M.D.
Members
Donald E. Menchetti, M.D.
Jerry W. Templer, M.D.
John K. Layle, M.D.
Earl R. Schultz, M.D.

MSMA STAFF

Executive Vice President
Royal O. Cooper
Executive Director
C. C. Swarens
Director of Scientific Affairs
Ron Ellison
Field Secretary
Don Wilson
Director of Communications
R. Kay Dinolfo

MSMA Officers

President	Larry G. Piepergerdes, M.D., *Kansas City*
President-Elect	T. J. Cooper, M.D., *St. Louis*
Secretary	Berry Ivy, M.D., *Springfield*
Treasurer	Jay Meyer, M.D., *St. Louis*
Immediate Past President	H. Peter Ekern, M.D., *Mexico*
Vice President	William J. Medlicott, M.D., *Kansas City*
Vice President	William C. Allen, M.D., *Columbia*
Vice President	John P. Roberts, M.D., *St. Louis*
Speaker	Arlen D. Winsky, M.D., *Springfield*
Vice-Speaker	Jo-Ellyn M. Ryall, M.D., *St. Louis*

Councilors

Marvin A. Singleton, M.D., *Joplin,* Chairman
Gary A. Dyer, M.D., *St. Joseph,* Vice Chairman
Robert V. Tompson, M.D., *Moberly*
William H. Huffaker, M.D., *St. Louis*
J. Otto Lottes, M.D., *St. Louis*
Arturo Montes, M.D., *St. Louis*
Frederick D. Peterson, M.D., *St. Louis*
David Wilkinson, M.D., *St. Louis*
Carol F. Williams, M.D., *St. Louis*
J. Michael Conoyer, M.D., *St. Peters*
Alan L. Braun, M.D., *Jefferson City*
Jerry Murrell, M.D., *Columbia*
A. J. Campbell, M.D., *Sedalia*
Raymond J. Caffrey, M.D., *Independence*
Robert T. Gibbons, M.D., *Prairie Village, KS*
Frederick W. Hahn, M.D., *Kansas City*
Dorothy D. Reister, M.D., *Shawnee Mission, KS*
Francis M. Corry, M.D., *Springfield*
David O. Barbe, M.D., *Mountain Grove*
Melvin C. Kasten, M.D., *Cape Girardeau*
Dean Blakeley, *Columbia*
Charles W. Barbee, M.D., *Columbia*
Gerry A. Love, M.D., *Kansas City*

Vice Councilors

Stephen Vilmer, M.D., *Shawnee Mission, KS*
Carl R. Kruse, M.D., *Palmyra*
Frank Ostapowicz, M.D., *Clayton*
Sammy L. Farrell, M.D., *Washington*
Jerry Meyer, M.D., *Concordia*
Mark W. Martin, M.D., *Lee's Summit*
David W. Hall, M.D., *Rogersville*
Thomas R. Stubbs, M.D., *West Plains*
William C. Shell, M.D., *Sikeston*
Evan Saunders, *St. Louis*
William Dorzab, M.D., *Kansas City*
Victoria Martin, M.D., *Shawnee Mission, KS*

AMA Delegates

Francis X. Lieb, M.D., *St. Louis*
Hugh E. Stephenson, Jr., M.D., *Columbia*
George M. Bohigian, M.D., *St. Louis*
Melvin C. Kasten, M.D., *Cape Girardeau*
Larry G. Piepergerdes, M.D., *Kansas City*
Vernon H. Balster, M.D., *St. Louis*
Walter A. German, M.D., *Springfield*

Printing Office: The Ovid Bell Press, Inc., Fulton 65251

Missouri Medicine (ISSN 0026-6620) is published monthly by the Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102.

Subscription rates: $15 per year. Interns and Residents, $7.50 per year

Second class postage paid at Jefferson City, Missouri and at additional mailing offices.

Postmaster: Send address changes to Missouri State Medical Association, c/o Membership Department, P.O. Box 1028, Jefferson City, MO 65102.

The articles published in *Missouri Medicine* represent the opinions of the authors, and do not necessarily reflect the official policy of the Missouri State Medical Association.

Copyright © 1987 by the Missouri State Medical Association. All rights reserved. Publication number 355380.

In 1986, Lady Liberty celebrated her 100th birthday, Senate proceedings began airing live on television and United Missouri Brokerage Services, Inc. opened for business.

United Missouri Brokerage Services opened in '86. It didn't make national headlines. It did make a difference.

Since then, United Missouri's brokerage experts have handled transactions for thousands of investors to buy, sell and trade stocks, bonds and options.

They've used their brokerage expertise to give customers quick and accurate transactions at a substantial savings when compared to full commission brokers' fees.

Today, United Missouri still makes a difference. It can make a difference for you. For more information and an application, stop by any United Missouri Bank. And, pick the proven performer.

UNITED MISSOURI
BROKERAGE SERVICES, INC.
Member NASD and SIPC

A subsidiary of United Missouri Bancshares, Inc.

928 Grand P.O. Box 419226 Kansas City, Missouri 64141-6226
(816) 556-7240

MSMA Progress Notes

Key Contact seminar January 16

In conjunction with AMPAC, MMPAC is sponsoring a one-day Key Contact seminar beginning at 8:00 January 16 at the Capitol Plaza Hotel in Jefferson City. This is your best opportunity to prepare for Missouri's 1988 Legislative Session.

The seminar includes briefings on the job of a Key Contact, where medicine is headed nationally and in Missouri, and how to conduct a candidate fundraiser.

More information is available by calling 314/636-5151. Write to MSMA, P.O. Box 1028, Jefferson City, MO 65102 and a brochure outlining the Key Contact seminar will be forwarded to you. ■

Medicare statistics support "clean claims"

The following statistics indicate the volume of claims received and paid within 30-day periods by our Medicare Fiscal Intermediaries. The percentage of clean claims is also shown. Medicare's definition of a "clean claim" is a claim requiring no external development.

Medicare Part B/General American—St. Louis

	June	July	August
Claims received	466,932	501,249	445,794
Clean claims received*	420,239	446,112	383,383
% of Clean claims received	90%	89%	86%
Claims processed within 30 days	497,377	452,839	522,307
% of all claims paid in 30 days		figures not given	
Clean claims paid in 30 days	376,346	424,109	401,521
% Clean claims paid in 30 days	94%	97%	98%

If you have any questions regarding this information, contact Patricia Morton at General American in St. Louis at 314/842-1310.

Blue Cross/Blue Shield/Medicare—Kansas City

	June	July	August
Claims received	231,559	226,643	195,502
Clean claims received	185,708	208,981	172,795
% of Clean claims received	80.2%	92.2%	84.4%
Total claims processed within 30 days*	230,633	225,283	194,720
% of all claims paid in 30 days	99.6%	99.4%	99.6%
Clean claims paid within 30 days*	171,240	183,108	205,428
% of Clean claims paid in 30 days	99.1%	98.6%	98.3%

*calculated from percentages provided

For more information on these figures, contact Brian J. Thompson, Director, Medicare, Blue Cross/Blue Shield, Kansas City at 816/561-0900.

It appears that the percentage of clean claims has increased over the past few years. ■

October Medicare changes to affect reimbursement

Two new laws that will significantly affect reimbursement for care of Medicare patients went into effect October 1. However, HCFA has told carriers that sanctions will not be applied until January 1, 1988.

The first deals with required disclosure of certain information to patients scheduled for elective surgery. The second will require certain physicians to refund Medicare payments on procedures subsequently ruled "medically unnecessary." Both new rules apply only to nonparticipating physicians who are not taking assignment on the procedure in question.

Elective surgery disclosures

This new rule applies to elective surgical procedures for which the nonparticipating surgeon charges $500 or more. The surgeon is required to disclose certain information to the patient prior to surgery. This information includes:

1) The estimated actual charge for the procedure.
2) Estimated Medicare-approved charges.
3) The excess of the actual charge over the approved charges.
4) Co-insurance amount applicable.

Failure to comply with the written disclosure requirement will obligate you to refund to the patient any sums collected in excess of the Medicare payment.

Medicare carriers have been instructed to notify all physicians immediately about this provision. The HCFA directive also notes there will be no sanctions applied for failure to provide "100% accurate information" on disclosure statements issued before January 1, 1988. Although physicians must comply now with the rule, carriers will not have Medicare payment information for them until 1988.

Patient refunds

This provision will apply to nonparticipating physicians who are not accepting assignment on the procedure in question. Should Medicare deem the procedure "unnecessary," the physician may be required to refund to the patient any payment collected for the services.

Physicians may avoid liability for these refunds by including an appropriate statement on the patient's bill. HCFA representatives indicated in September that a preprinted statement warning the patient of his potential financial responsibility for any service subsequently determined to be "medically unnecessary" would protect the physician.

HCFA representatives, meeting with AMA officials recently, emphasized that a person, and not merely a computer, must review all claims for services determined to be unnecessary, and that person must examine all accompanying documentation in making the determination. HCFA is instructing its Medicare carriers to provide "detailed explanations" to the physician when a claim is denied.

Medicare carriers should be sending detailed information on these new provisions very soon. ■

Medicare premium increase

The Reagan administration recently announced that premiums for Medicare Part B coverage will increase on Jan. 1, 1988, to $24.80 per month, a 39% increase over 1986 premiums. The increase has been largely attributed to a 20% increase in Medicare Part B expenditures, and a number of news articles and public statements have placed the blame on rising physician fees. The facts, however, tell a different story. The American Society of Internal Medicine (ASIM) has gathered some of these facts, many of them from HCFA officials.

Some of the factors that have played a role in the premium increase include the government's decision to keep premiums artifically low in the previous few years; new laws enacted by Congress that increased costs — including expansion of benefits for services of non-physicians; a desirable and intended shift of services out of expensive hospitals and into less costly physician offices and outpatient services; an increase in the over-65 population, and particularly in those over 85 who generally require more medical services; continued improvements in patient care; and greater access to physician services because of the growing supply of physicians.

HCFA officials acknowledged the following facts about the Medicare premium hike, compiled by ASIM:

Fact: The estimated 1988 Part B premium increase is almost double the increase in Medicare spending — 39% compared to 20%. This means that although increased program costs in 1987 are a matter of concern, they explain only half the premium increase.

Fact: The "prime reason," according to HCFA officials, that premiums are rising at twice the rate of government spending is that the government for the previous two years has artificially kept premiums below what they should have been. In 1986,premiums did not increase at all; in 1987, they were set $2.86 per month *lower* than they should have been to keep pace with spending. To make up for the difference, the government began dipping into Medicare reserves rather than raising the premium. Now short of money to run the program, the government is asking beneficiaries for a single large premium hike instead of having smaller increases spread over three years. This accounts for the unprecedented 39% jump.

Fact: The documented increase in Medicare payments for Part B services has nothing to do with what physicians are charging for their services, aside from the negligible impact of participating physicians' fee increases. All nonparticipating physicians (who make up the majority) have had their fees frozen by Congressional mandate through the end of 1986, and are now only allowed 1% increases.

Fact: Much of the increased level of services provided to beneficiaries has been attributed by the government to Medicare's policy of encouraging the use of less-expensive outpatient services and physicians' office services. Treating patients in this less-expensive setting reduces payments for more expensive hospitalization, and may actually save Medicare money overall.

Fact: Medicare spending for the 12 months ending June 30, 1987, apparently increased by 20% over the prior 12 months (July 1, 1985-June 30, 1986), but at this time, no one is sure *why* the increase occurred. Physician fees, however, are almost certainly *not* the reason for the increase. The following chart summarizes the supposed source of this estimated 20% increase, based on HCFA's best information available. Officials say it may be another 9 to 12 months before an accurate analysis can be made.

BREAKDOWN OF THE 20% PREMIUM INCREASE

2%	of the increase is due to **MORE MEDICARE BENEFICIARIES** than the prior twelve months, the result of an aging population. Obviously, nothing can be done about this part of the cost increases.
+2%	is due to a new law passed by Congress that requires **PROMPT PAYMENT** of Medicare claims. Congress passed this law because patients were waiting as long as six weeks to get reimbursed by the program — something everyone agreed was unacceptable. The result is that Medicare paid more claims in 1986-87 rather than delaying and paying them in the following year as they had done in the past. Again, nothing could be done about this portion of the increase, unless Congress just ignored the problem of slow payment.
+7%	of the increase is due to Congress' decision to **UPDATE MEDICARE PAYMENTS** to patients, physicians, suppliers, laboratories and other non-physician providers (the so-called Medicare "allowable charge") — the first increase in payments in almost four years for most physician services since Congress, in 1984, froze payments for most physician services until 1987 at July 1, 1983 levels.
SUBTOTAL: 11%	which represents the amount of the cost increase due to demographic changes (aging population) and **laws Congress itself enacted** to correct problems in the Medicare program. (It is unfortunate that some members of Congress are now blaming physicians for the cost of laws they themselves enacted).
+9%	represents **MORE SERVICES** provided to Medicare patients (the so-called "utilization," "volume" or "intensity" increases). This factor — which represents less than half of the overall cost increase — is the only one that can be directly attributable to physicians, at least in part, since they order many (but not all) medical services for their patients. But "more services" does not necessarily mean "unnecessary services."
TOTAL 20%	total increase, July 1, 1986 through June 30, 1987.

The Shealy Institute

A PRACTICAL SOLUTION
TO ONE OF YOUR MOST
FRUSTRATING PATIENT PROBLEMS

The Logical Extension of Your Professional Services —

- Our Institute pioneered the comprehensive "Pain Rehabilitation" concept.
- We introduced the pain control techniques most often used in rehabilitating chronic pain patients — facet rhizotomy, TENS, PENS, Biogenics®, and neurochemical profiling.
- We continue to be the recognized leader in the field. Our success is measured by your patient's ability to return to work, withdraw from drugs, and control pain intensity.
- Since we specialize in pain management, your patient returns to you after treatment. We are available as consultants at any time. We are the only *accredited* pain management clinic in the four state area. Our services are covered by most insurance companies and worker's comp programs.

Send for a free copy of
the Shealy Pain Report.
The Shealy Institute
3525 S. National
Springfield, MO 65807
417-882-0850
1-800-492-4171, Ext. 35

CARF
A Nationally Accredited Rehabilitation Facility

Creighton University Medical Center
announces a REVIEW COURSE in

UNDERSTANDING AIDS

At The Red Lion Inn
Omaha, Nebraska

December 11-12, 1987

COURSE CO-DIRECTORS:
Washington C. Hill, M.D.
Associate Professor of Obstetrics and Gynecology
Director, Maternal-Fetal Medicine
and The Perinatal Center

Gilles R.G. Monif, M.D.
Professor of Obstetrics and Gynecology
Director, Division of Infectious Diseases

FACULTY:
Mary Alderson, R.N.
Robert Fagnant, M.D.
Rita Fahrner, R.N.
Washington C. Hill, M.D.
James D. Landmark, M.D.
Ruthanne Marcus, M.P.H.
Howard Minkoff, M.D.
Gilles R.G. Monif, M.D.
Richard L. O'Brien, M.D.
Laurel Preheim, M.D.
Martha Rogers, M.D.
Richard Shugrue, J.D.
Paul Stoesz, M.D.
Laverne Wintermeyer, M.D.

AMA CATEGORY I
CREDITS AND ACOG
COGNATES AVAILABLE

For further information:
Office of Continuing Education
Creighton University
School of Medicine
Omaha, NE 68178
Call: 1-800-228-7212
ext. 2550

AIM HIGH

AIR FORCE MEDICINE

AN ATTRACTIVE ALTERNATIVE TO PRIVATE PRACTICE

Are you sick of the paperwork battle? Are you more familiar with the latest computer technologies instead of those of your specialty? Are supply and equipment problems getting you down?

Join the Air Force medical team. Concentrate on your medical practice. Leave the paperwork hassle to others. We use the group practice system of health care. It allows maximum patient/physician contact with a minimum of administrative responsibilities.

You'll get to use those skills you've gained through the years of education; to stay up with new methods and techniques; and, if qualified, to specialize.

Our superior employment and benefits package make Air Force medicine an attractive alternative to private practice. Find out how you can be a part of the Air Force health care team. Call

MSgt Bostedo
(913)491-8640
Collect

AIR FORCE

The benefit of antianginal protection plus safety...

CARDIZEM®: A FULLER LIFE

diltiazem HCl/Marion

90 mg GREATER DOSAGE FLEXIBILITY NEW 120 mg

- **A remarkable safety profile**[1-6]
  The low incidence of side effects with Cardizem allows patients to feel better.
- **Protection against angina attacks**[1,5,7-9]
  The predictable efficacy of Cardizem in stable exertional[*] and vasospastic angina allows patients to do more.
- **A decrease in myocardial oxygen demand**
  Resulting from a lowered heart rate-blood pressure product.[5]
- **Compatible with other antianginals**[6†]
- **Safe in angina with coexisting hypertension, COPD, asthma, or PVD**[1,3,5,6]

[*] CARDIZEM® (diltiazem HCl) is indicated in the treatment of angina pectoris due to coronary artery spasm and in the management of chronic stable angina (classic effort-associated angina) in patients who cannot tolerate therapy with beta-blockers and/or nitrates or who remain symptomatic despite adequate doses of these agents

[†] See Warnings and Precautions.

Please see brief summary of prescribing information on the next page.

CARDIZEM®
diltiazem HCl/Marion

ANTIANGINAL PROTECTION PLUS SAFETY

Usual maintenance dosage range: 180-360 mg/day

℞
Cardizem®
(diltiazem HCl)

☐ 60 mg ☐ 90 mg
☐ 120 mg

Sig: tid

Brief Summary
Professional Use Information

CARDIZEM®
(diltiazem HCl) 30 mg, 60 mg, 90 mg, and 120 mg Tablets

CONTRAINDICATIONS

CARDIZEM is contraindicated in (1) patients with sick sinus syndrome except in the presence of a functioning ventricular pacemaker, (2) patients with second- or third-degree AV block except in the presence of a functioning ventricular pacemaker, and (3) patients with hypotension (less than 90 mm Hg systolic).

WARNINGS

1. **Cardiac Conduction.** *CARDIZEM prolongs AV node refractory periods without significantly prolonging sinus node recovery time, except in patients with sick sinus syndrome. This effect may rarely result in abnormally slow heart rates (particularly in patients with sick sinus syndrome) or second- or third-degree AV block (six of 1,243 patients for 0.48%). Concomitant use of diltiazem with beta-blockers or digitalis may result in additive effects on cardiac conduction. A patient with Prinzmetal's angina developed periods of asystole (2 to 5 seconds) after a single dose of 60 mg of diltiazem.*
2. **Congestive Heart Failure.** *Although diltiazem has a negative inotropic effect in isolated animal tissue preparations, hemodynamic studies in humans with normal ventricular function have not shown a reduction in cardiac index nor consistent negative effects on contractility (dp/dt).*
   Experience with the use of CARDIZEM alone or in combination with beta-blockers in patients with impaired ventricular function is very limited. Caution should be exercised when using the drug in such patients.
3. **Hypotension.** *Decreases in blood pressure associated with CARDIZEM therapy may occasionally result in symptomatic hypotension.*
4. **Acute Hepatic Injury.** *In rare instances, significant elevations in enzymes such as alkaline phosphatase, CPK, LDH, SGOT, SGPT, and other symptoms consistent with acute hepatic injury have been noted. These reactions have been reversible upon discontinuation of drug therapy. The relationship to CARDIZEM is uncertain in most cases, but probable in some. (See PRECAUTIONS.)*

PRECAUTIONS

General. *CARDIZEM (diltiazem hydrochloride) is extensively metabolized by the liver and excreted by the kidneys and in bile. As with any new drug given over prolonged periods, laboratory parameters should be monitored at regular intervals. The drug should be used with caution in patients with impaired renal or hepatic function. In subacute and chronic dog and rat studies designed to produce toxicity, high doses of diltiazem were associated with hepatic damage. In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats were associated with histological changes in the liver which were reversible when the drug was discontinued. In dogs, doses of 20 mg/kg were also associated with hepatic changes; however, these changes were reversible with continued dosing.*

Drug Interaction. *Pharmacologic studies indicate that there may be additive effects in prolonging AV conduction when using beta-blockers or digitalis concomitantly with CARDIZEM. (See WARNINGS.)*

Controlled and uncontrolled domestic studies suggest that concomitant use of CARDIZEM and beta-blockers or digitalis is usually well tolerated. Available data are not sufficient, however, to predict the effects of concomitant treatment, particularly in patients with left ventricular dysfunction or cardiac conduction abnormalities. In healthy volunteers, diltiazem has been shown to increase serum digoxin levels up to 20%.

Carcinogenesis, Mutagenesis, Impairment of Fertility. *A 24-month study in rats and a 21-month study in mice showed no evidence of carcinogenicity. There was also no mutagenic response in in vitro bacterial tests. No intrinsic effect on fertility was observed in rats.*

Pregnancy. *Category C. Reproduction studies have been conducted in mice, rats, and rabbits. Administration of doses ranging from five to ten times greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and fetal lethality. These doses, in some studies, have been reported to cause skeletal abnormalities. In the perinatal/postnatal studies, there was some reduction in early individual pup weights and survival rates. There was an increased incidence of stillbirths at doses of 20 times the human dose or greater.*

There are no well-controlled studies in pregnant women; therefore, use CARDIZEM in pregnant women only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers. *Diltiazem is excreted in human milk. One report suggests that concentrations in breast milk may approximate serum levels. If use of CARDIZEM is deemed essential, an alternative method of infant feeding should be instituted.*

Pediatric Use. *Safety and effectiveness in children have not been established.*

ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but it should be recognized that patients with impaired ventricular function and cardiac conduction abnormalities have usually been excluded.

In domestic placebo-controlled trials, the incidence of adverse reactions reported during CARDIZEM therapy was not greater than that reported during placebo therapy.

The following represent occurrences observed in clinical studies which can be at least reasonably associated with the pharmacology of calcium influx inhibition. In many cases, the relationship to CARDIZEM has not been established. The most common occurrences as well as their frequency of presentation are: edema (2.4%), headache (2.1%), nausea (1.9%), dizziness (1.5%), rash (1.3%), asthenia (1.2%). In addition, the following events were reported infrequently (less than 1%):

Cardiovascular:	*Angina, arrhythmia, AV block (first degree), AV block (second or third degree — see conduction warning), bradycardia, congestive heart failure, flushing, hypotension, palpitations, syncope.*
Nervous System:	*Amnesia, gait abnormality, hallucinations, insomnia, nervousness, paresthesia, personality change, somnolence, tinnitus, tremor.*
Gastrointestinal:	*Anorexia, constipation, diarrhea, dysgeusia, dyspepsia, mild elevations of alkaline phosphatase, SGOT, SGPT, and LDH (see hepatic warnings), vomiting, weight increase*
Dermatologic:	*Petechiae, pruritus, photosensitivity, urticaria.*
Other:	*Amblyopia, dyspnea, epistaxis, eye irritation, hyperglycemia, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties.*

The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: alopecia, gingival hyperplasia, erythema multiforme, and leukopenia. However, a definitive cause and effect between these events and CARDIZEM therapy is yet to be established.

Issued 9/86

See complete Professional Use Information before prescribing

References: 1. *Schroeder JS: Mod Med 1982;50(Sept):94-116.* **2.** *Cohn PF, Braunwald E: Chronic ischemic heart disease, in Braunwald E (ed): Heart Disease: A Textbook of Cardiovascular Medicine, ed 2. Philadelphia, WB Saunders Co, 1984, chap 39.* **3.** *O'Rourke RA: Am J Cardiol 1985;56:34H-40H.* **4.** *McCall D, Walsh RA, Frohlich ED, et al: Curr Probl Cardiol 1985;10(8):6-80.* **5.** *Frishman WH, Charlap S, Goldberger J, et al: Am J Cardiol 1985;56:41H-46H.* **6.** *Shapiro W: Consultant 1984;24(Dec):150-159.* **7.** *O'Hara MJ, Khurmi NS, Bowles MJ, et al: Am J Cardiol 1984;54:477-481.* **8.** *Strauss WE, McIntyre KM, Parisi AF, et al: Am J Cardiol 1982;49:560-566.* **9.** *Feldman RL, Pepine CJ, Whittle J, et al: Am J Cardiol 1982;49:554-559.*

Another patient benefit product from
PHARMACEUTICAL DIVISION
MARION
LABORATORIES, INC.
KANSAS CITY, MO 64137

0034M7

EDITOR'S DESK

by Jordan W. Burkey, M.D.
Editor

In our culture we tend to behave in conformity with a strict conscience — and if our behavior is not as it should be, we have feelings of guilt.

Guilt in the '80s

At a medical meeting a few years back, we heard a University of Missouri-Columbia neurologist, Dr. Jim Dexter, quote a compendium of the worst inventions of the 20th century. Along with such modern misfires as off-road vehicles and shrink-wrap plastic was listed *guilt*.

This requires a little head scratching, but the author of this list may have something. Guilt is obviously not a new emotion, but in the past few years this part of our inner working seems to have evolved into a major force. Some psychologists feel that, as often as not, guilt feelings precede rather than follow, any wrongdoing.

People are looking for something on which to base their guilt feelings. In the last half century have come waves of remorse as to how American Indians and Blacks have been treated; Vietnam now calls for self-flagellation; the status of women in the past is now termed a plight.

Basic psychology books state that the defense mechanisms of people of Western civilization countries include unconscious repression of impulses which might be dangerous to one's psyche. This is compared to a more conscious suppression of such feelings, as is more prevalent in the Orient. Thereby if an Oriental loses control, he is shamed — "loses face." In our culture we tend to behave in conformity with a strict conscience — and if our behavior is not as it should be, we have feelings of guilt.

Think about all the ways these guilt feelings inch into our decisions as doctors, and into the ways patients act. We feel guilty if we don't use heroic measures to prolong the lives of our patients; this may not necessarily be what the patient really wants.

At least a quick pang of guilt may show itself at every request for a charitable contribution which we turn down. There is guilt when our medical practice takes us away from our families. There is guilt when we're off with our families and our patients can't reach us.

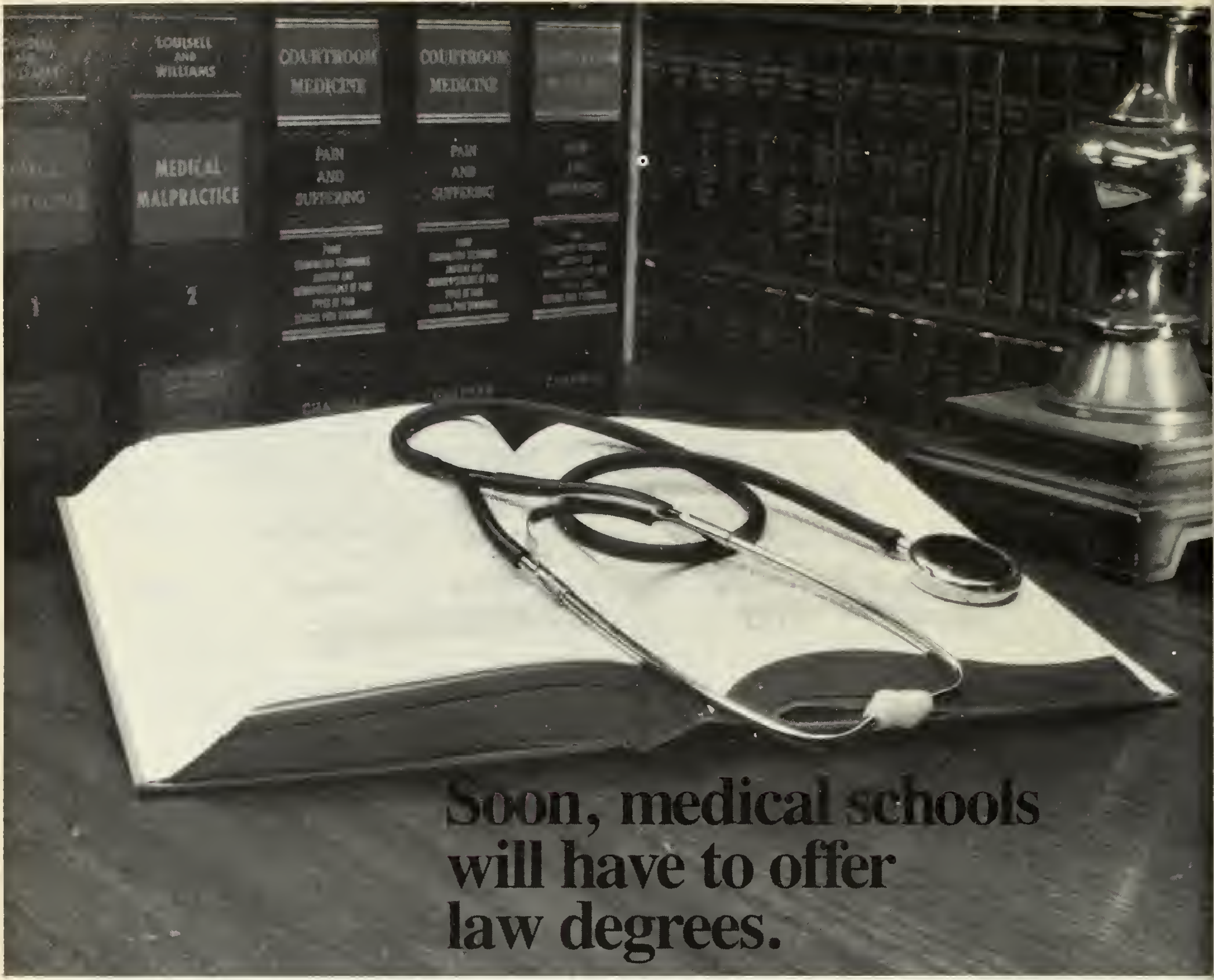
The current "exercise more, live forever" fad seems to be based in part on the same fear. If you don't jog/dash/pump iron/swim daily at a health club, you are guilty of misuse of your body. If not on a diet, you are a derelict.

And how are our patients affected by these modes of adjustment? Society has now developed a mass moral guilt concerning children born with genetic abnormalities. If the doctor lets grandma die at 97, shouldn't the family have consulted that physician friends were talking about? She might have made it to 98. That broken arm of Junior's that doc set doesn't look quite right; the parents did wrong by not taking him to Mayo's.

The expectant mother seems to have some of the worst guilt feelings. We have seen pregnant women scared to use ear drops for all the damage to her unborn child of which she might be guilty. Trial lawyers thrive on all this. "If your baby isn't perfect, and you haven't yet sued your doctor, you are guilty of neglecting your child," proclaim TV ads in a nearby state.

The reasons for increase in

Continued on page 692


LOUISELL AND WILLIAMS
MEDICAL MALPRACTICE
COURTROOM MEDICINE
PAIN AND SUFFERING
COURTROOM MEDICINE
PAIN AND SUFFERING

Soon, medical schools will have to offer law degrees.

It's headed that way. With malpractice suits on the rise, doctors need to know law as well as they know medicine!

Our counsel? Why not concentrate on your practice and let Medical Defense Associates concentrate on your legal protection against malpractice suits. At MDA, we offer non-profit protection for your practice. It's protection you can count on because MDA answers only to its policy holders, not stock holders!

Call us, and let MDA tell you more. After all, since you were trained as a physician . . . you shouldn't be practicing law.

Call toll free 1-800-492-7212

Medical Defense Associates
P.O. Box 3817
Springfield, MO 65808

Represented by Wedgeworth and Co. Ltd.
dba Missouri Malpractice Managers

Auxiliary Message

By Sandy Mitchell
MSMAA President

> *"To list the projects and accomplishments of the Auxiliary to date would be tedious so let's consider some questions you may have."*

An accomplished organization

"Now just what is it that the Missouri State Medical Association Auxiliary does?" If you find yourself asking this question, I fear your spouse is not a member of the Auxiliary and, therefore, we need to talk.

To list the projects and accomplishments of the Auxiliary to date would be tedious so let's consider a few questions you may have.

Have you recently received notice of a legislative hearing on indigent care in Missouri only to find your office and hospital schedule booked too heavy for you to attend? Auxiliary members attended the session and reported back pertinent information to their spouses and to their county members that will definitely affect the practice of medicine and reimbursements in Missouri.

Did you deliver a new O.B. and wonder what that mother knows about caring for her child? Missouri Auxilians are working with young mothers and helping them cope with their responsibility in a safe, caring manner. Prenatal and postnatal classes as well as sibling classes are offered.

Have you known the sorrow of losing a patient in the E.R. after a senseless accident when the use of a seatbelt would have made the difference between life and either death or disability? Auxiliary members worked with the Legislators to pass effective seatbelt laws and are now teaching seatbelt safety in Missouri schools and at health fairs around the state. They are also providing free infant safety seats to needy parents.

Have you recently been called to a friend's home to provide medical assistance and comfort for a troubled teenager who attempted suicide? Are you concerned that next time you may be called too late? Missouri Auxiliary members have established suicide prevention and awareness programs and have successfully convinced some school boards that the problem exists and that teenagers themselves can help in detection and prevention of suicide.

What about AIDS? Are you beginning to think maybe you should make some changes in your office procedure and technique in order to protect yourself and your patients? Auxiliary members see this as a real problem and are currently learning more about the disease, how it affects the medical family and how to cope with the hysteria through education and action.

Do all the newspaper articles on Medicare changes in legislation send you into a frenzy? Do you have great solutions to the problems but no time to follow through? Auxiliary members are writing letters, expressing medicine's views to local groups, meeting with Legislators and sharing Medicine's story by explaining physicians' needs.

Did your third-year resident tell you that he is now $70,000.00 in debt and really doesn't see an end to the paybacks? Missouri Auxilians raised more than $30,000.00 last year for the American Medical Association Education and Research Foundation (AMA-ERF) and Missouri State Medical Foundation, (MSMF) low interest loans to students and

Continued on page 692

my•o•pia

\mī-ˈō-pē-ə\: deficiency of foresight

SYMPTOMS: Most often observed in professionals who are inundated with day-to-day responsibilities. Dedicated to the needs of others, subject becomes focused on today… at the expense of tomorrow's full potential. May have complicated, expensive retirement plan with scattered investments and sometimes unfocused or nonexistent financial objectives. The lack of sufficient time and professional guidance may result in feelings of anxiety over future well-being of self, family and staff.

DIAGNOSIS: Financial myopia (common to this overworked peer group).

COMPLICATIONS: May not know where to turn for advice that is professional, comprehensive, personalized, flexible, diverse and *painless.*

R_x: As a member of the Missouri State Medical Association, you are eligible for treatment by highly qualified retirement planning specialists—no charge for initial consultation or subsequent quarterly or semiannual checkups. For security and peace of mind tomorrow (and possibly lower costs), call today for Michael Grimes - Director or Thomas Knapko - Associate Director at E.F. Hutton. Call collect 314-725-9690.

CONTRAINDICATIONS: None.

MISSOURI STATE MEDICAL ASSOCIATION
A membership benefit offered in conjunction
with Trust Consultants, Inc., and E.F. Hutton.

PRACTICE MANAGEMENT

by George S. Conomikes

Here are some ideas that are easy to implement and should enhance your practice.

Improving your practice development

Interested in improving your practice? Start off by using the ideas provided here.

Newsletters. About two to four times per year, some practices have employed newsletters that deal with clinical topics, new equipment and facilities improvements, biographical information about new colleagues as well as employees. Mail it to active patients and patients who haven't been in for up to two or three years. It could be mailed to referral sources, pharmacists, and school nurses.

Patient satisfaction surveys. These should have no more than 15 questions, and be printed on one side of one page. The physician should hand them out with a stamped envelope addressed to the doctor and marked "confidential."

Improved patient recall system. Your best practice builder is to avoid losing your current patients. Phoning patients for their recall visits is more reliable than recall cards or letters. Consider calling patients who have not been in for over one year who should be candidates for periodic preventive care.

Referral logbook. Maintain a looseleaf notebook with names of each referral source (physicians, pharmacists and patients) at the head of each page. This will allow you to keep more accurate track of your best referral sources. Always send "thank you" notes to referral sources and occasionally call those who provide you with more than a few.

Avoid interest and other nuisance charges. Charging interest or service charges on patient accounts is an irritant. Similarly, if a patient's check "bounces" don't bother to collect your bank service charges from the patient. Treat it as a normal cost of doing business.

Availability. If a physician is solo and traditionally takes off one day a week, he reduces his availability. To improve availability consider taking off two half-days instead. Where there are two or more physicians all efforts should be made to have full office coverage five or more days of the week, and possibly some extended hours as well.

Innovative office hours. Many patients find it difficult to visit a physician during normal 9 am-5 pm office hours, especially for "well" visits. Some offices have been successful with early morning hours one or two days per week; others have extended their hours to 7 or 8 pm. Saturdays (half-day if not all day) are tried by approximately 20% of primary care physicians throughout the United States. Other specialties are slowly getting into it. We also recommend that lunch hours be available for patient visits; employees and doctors could eat earlier and/or later.

Phone accessibility. If office hours are 9-5, you should consider having one employee answering the phone 30 minutes to one hour earlier. Many patients wake up sick or

Continued on page 692

■ Editor's Desk

Continued from page 687

guilt feelings in recent years are probably complex. We need to realize how much this particular subconscious means of personality defense affects our own decision making and our patients' actions.

Cars run on gas; it sometimes seems like people run on guilt. ■

■ Auxiliary Message

Continued from page 689

residents. This year's totals promise to be even higher!

This scenario could go on forever for truly every concern of Medicine represents a project of the Auxiliary. Your spouse as an Auxilian represents an important link in strengthening not only the medical profession but the medical marriage as well.

We may not answer all your questions but we are certainly working with you to find the solutions. ■

■ Practice Management

Continued from page 691

have been sick during the night and want to make an appointment before they go to work. Answering services are not enough. Also, your phone should not be on answering service during your lunch hours. Employee hours should be staggered to ensure phone coverage throughout the day.

Welcome letters and patient information booklets. Some practices have successfully employed welcome letters and practice information booklets for new patients. "Welcome to our practice" letters could be sent prior to, or after the initial patient visit. Practice information booklets would have information such as office hours; where to call in an emergency and after-hours; billing and insurance policies of the practice; map of practice location (if difficult to explain on phone), etc.

Yellow pages listing. We have worked with medical practices where the practice's corporation name was listed in the phone book and yellow pages, but not the individual physicians. Be sure each physician is listed. Also consider being listed in more than one phone directory: it may be worthwhile to be listed in the directory(ies) of adjoining communities, especially if some of your patients are already coming from them.

In the final analysis, medical practices will best survive which do not look backward to busier days, but which make adjustments to the realities of the present and the future. This may include lowered income expectations, longer hours, closer review of your personnel and their effect on patient service. ■

New **HemaWipe**® System
Designed to solve
the compliance problem

Just wipe, peel and seal.

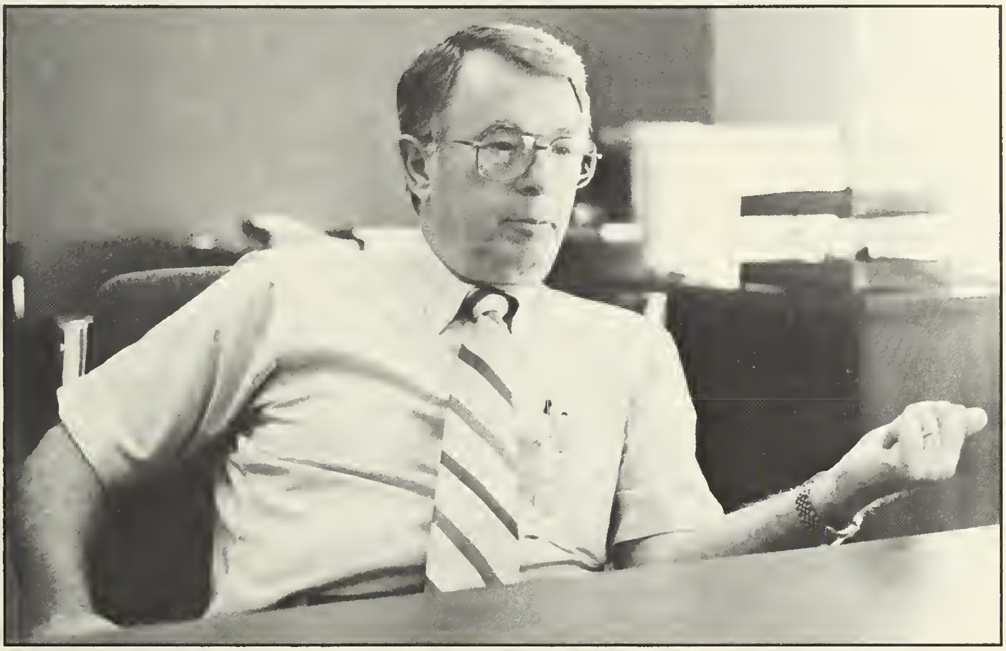
**Introducing the first "civilized" test
for fecal occult blood.**

For more information call

The GOETZE-NIEMER CO.
1701 Brooklyn, K.C., MO. 816-231-1900
1-800-892-7337 (MO) 1-800-492-7337 (KS)

William D. Bradshaw, M.D.

PRO *Medicine*



Valerie Peters photo

In 1984, the Missouri State Medical Association (MSMA) and the Missouri Association of Osteopathic Physicians and Surgeons (MAOPS) established the Missouri Patient Care Review Foundation with the seed money their joint application obtained from the Health Care Financing Administration (HCFA). The Foundation is Missouri's federally-designated peer review organization (PRO) that reviews and makes medical determinations on care provided by physicians and hospitals to our state's Medicare patients.

Until July 1, 1987, Mohammad N. Akhter, M.D., M.P.H., had administered the Foundation since its inception. Dr. Akhter, a neurosurgeon, was Director of the Division of Health prior to that. In 1980, he came to Missouri to take the position of Deputy Director for Medical Affairs of the Missouri Department of Mental Health, having served as the Chief of the Division of Emergency Medical Services in Michigan.

Dr. Akhter made significant contributions in public health and peer review in Missouri. However, he announced his resignation last March to fulfill a dream. He would return to his native Pakistan with his daughter and his wife Jeanette, an OB/GYN, so that the Akhters could provide their medical services to the needy in his homeland.

Having great respect for Dr. Akhter, MSMA and MAOPS wished the physician well. But who could replace a man of Dr. Akhter's caliber? The PRO needed someone familiar with Missouri and its physicians, someone who understood the complexity of the PRO as well as its controversial image and someone who could deal effectively in the tough administrative position.

To those who know him, the choice was obvious.

by Susan Flanigan Gold

William D. Bradshaw, M.D., of Columbia was selected for the critical position of PRO president. The family physician had served as Dean of the University of Missouri-Columbia (UMC) School of Medicine and coordinator of UMC's Continuing Medical Education (CME) program. In addition, Dr. Bradshaw had practiced for 21 years in Clinton, MO, and still maintains his associate professorship in the UMC Department of Family and Community Medicine.

"Dr. Akhter is a remarkable person so there was understandable concern in the healthcare community when he announced his impending departure," said Dan Jaco, deputy director of operations at the Foundation. "However, Dr. Bradshaw is known for his background and experience as well as his compassion for patients and practicing physicians, so his willingness to serve in this critical role is an incredible break for the Foundation."

"The President must be able to balance the often conflicting demands of patients, physicians, hospitals and the federal government in the context of myriad federal rules and regulations that rarely remain static," said Kenneth Rall, M.D., past chairman of the Foundation's 16-member Board of Trustees. "In selecting Dr. Bradshaw for this position, the Board has made a clear statement regarding the high esteem in which it holds him."

Ironically, Dr. Bradshaw was a member of the panel that interviewed Dr. Akhter for the directorship of the Missouri Division of Health.

"I thought Dr. Akhter was a very gifted individual, very well trained and uniquely suited for the offices and the function that he served in Missouri," said Dr. Bradshaw. "He is a remarkable individual who gained the admiration of us all. I hold him in very high regard."

Fortunately, Dr. Bradshaw spent some time with Dr. Akhter in the PRO office on Ellis Boulevard in Jefferson City prior to Dr. Akhter's departure.

"Following him in the office has made it easier because of his gifted personality and of his intellect. It is always easier and better to follow someone who is very good as opposed to someone who is not."

But Dr. Bradshaw knew the workings of the PRO from personal experience as well. He had served as a PRO Board member since 1986.

"Being a Board member, I had an idea of the responsibilities and had also been in the unique position to review for quite some time. So, my position is not new to me, but actually quite interesting work . . . challenging. I find it fascinating."

Dr. Bradshaw inherited Dr. Akhter's staff. This includes approximately 42 employees in the Jefferson City office as well as staff at the Cape Girardeau, St. Louis, Kansas City, and Springfield offices. Statewide, the PRO employs 80 individuals.

"I am pleased with the staff, although I am still getting acquainted with everyone. It takes time to really get to know everyone so I am trying to become familiar with each person, not just middle or top management," Dr. Bradshaw said.

Because of his background, especially his involvement in MSMA and his work on the PRO Board, Dr. Bradshaw is quite familiar with physicians' criticisms of the PRO. He explains that the PRO is currently serving as the "watchdog" over the prospective pay system so as to protect the rights of Medicare patients. Missouri's PRO ensures that the prospective pay system does work and doesn't sacrifice the quality of care in order to keep cost containment "apropos."

"Ultimately, the quality of care must remain, despite the fact that we (PRO) do try to get costs under control," he said.

Presently, Missouri's PRO is operating under a $7.6-million budget. Within the PRO's first two years, about a quarter of a million cases were reviewed, approximately 6,000 cases had questionable procedures and 68 physicians were eventually reprimanded. Does the PRO help individual physician's practice of medicine or does it actually hinder their medical judgment?

"It should just simply be a monitor for quality control. It should neither hinder nor enhance," stated Dr. Bradshaw. "It should really be an education arm to help physicians realize that they may need help in that area and to identify that lack of knowledge if, indeed, there is a lack of knowledge.

The PRO should be an education arm to help physicians realize that they may need help in that area of medicine and to identify that lack of knowledge, if, indeed, there is a lack of knowledge.

"But to identify where quality of patient care slips, and then through the activities that we have available, assist the hospitals and/or physicians to seek educational remedies to their problems, this is our goal. So we really are an educative arm.

"And the education of course is primarily continuing medical education or education after a formal degree has been granted."

The CME program at UMC, as well as the opportunity to teach, had lured Dr. Bradshaw from private practice in Clinton to the University system.

"With 21 years of private practice and understanding how the knowledge base changes, I realize that you have to stay current. It doesn't take long in private practice to realize that it is quite a chore to keep up, stay current and remain proficient in today's (medical) world.

"The half-life of medicine now or the factual knowledge is something less than four and one-half years so you see just the time you are in (medical) school and training, much of the knowledge is displaced."

Dr. Bradshaw has targeted education as his top priority, not only to people in the health professions, but also to the recipients of healthcare.

In 1987, the Missouri Legislature passed a law mandating CME for licensure, but the specific requirements to implement the law are still being developed. Most Missouri physicians voluntarily participate in CME activities which lead to the Physician's Recognition Award from MSMA/AMA. This award requires 150 hours of CME over three years. Dr. Bradshaw heads the task force that is helping to establish the state CME requirements.

Most Missouri physicians will accept the PRO's emphasis on education. Yet, many criticize the PRO as being arbitrary and quota-oriented in its denials. How does Dr. Bradshaw respond to those charges?

"Criticism has been directed, and justly so, because the SuperPRO or that group that watches us (state PROs) to see that we are doing our job, arbitrarily assigns us a percentage of problems or what they think should be a percentage of problems that we review," said Dr. Bradshaw. "We don't have the numbers that they would like to see, so we have been subjected to criticism by that group.

"To my knowledge, the Foundation has never made denial decisions based on quotas, and I believe they never will. Nevertheless, some physicians are concerned at the discrepancies between what we have done and what the SuperPRO believes we should be doing. For example, during our most recent SuperPRO evaluation, our denial rate for the cases re-reviewed was 1%. Yet SuperPRO said we should have denied more than 10%. Similarly, our identification of cases involving premature discharge was said to be too low.

"Naturally, the typical practicing physician is going to infer from these findings that the Foundation will either have to fall in line with such expectations or find itself replaced by an organization that can," Dr. Bradshaw said. "But that need not be the case. First of all, SuperPRO results typically exceed those of the PRO, especially in the area of denials. Secondly, and most important, we simply will not allow a peer review mechanism that is dictated by such a process.

"It is not a simple job. (We are) trying to follow HCFA's rules, guidelines and regulations to keep the profession and the health care delivery system happy with our efforts."

It is especially trying since HCFA's rules, regulations and implementation deadlines change constantly. For example, the February 1987 issue of Missouri Medicine contained an article by Dr. Akhter explaining HCFA's Second Opinion Program. HCFA missed the January 1, 1987 implementation date set by Congress. The PROs were to receive final program directions in mid-February. To date, the HCFA Second Opinion Program has not been implemented.

According to Dr. Bradshaw, the Second Opinion Program is still on hold. "There was an attempt to initiate it late last year, but it caused such a problem because it was attempted by transmittal and not by hearings or the usual mechanisms, so HCFA has backed off of it. It probably will be implemented sometime, although we are not sure of when."

Since all of these HCFA directives are difficult for physicians, isn't it even more confusing for Medicare recipients?

"It is not well understood yet and it is particularly confusing when the prospective pay systems are based on diagnostic related groups (DRGs). The DRGs are averages of what prospective pay systems allow the hospitals; being averages the hospitals put pressure on the physicians to get the patient out quicker. They may be discharged prematurely," Dr. Bradshaw said.

"They may have a (medical) problem that could have been resolved if the patient stayed in longer, but the incentive to get the patient out is a monetary incentive. We must be sure that the monetary incentive does not get in the way of the quality of care."

So what can Missouri physicians do to make life with the PRO a little easier?

"To understand that we make our decisions by reviewing hospital charts. And so it becomes extremely important to document in the chart all of the activities that occur between patient, hospital and physician. If they are not documented in the chart, even though they may be understood by the parties, when we review the case, we can't find the answers to the problem."

It is extremely important to document in the hospital chart all of the activities that occur between patient, hospital, and physician. If they are not documented in the chart, even though they may be understood by the parties, when we review the case, we can't find the answers to the problem.

Stressing the fact that all quality issues are reviewed by professional peers, Dr. Bradshaw explained that some technical issues may be reviewed first by a medical record technician or nurses.

"But all quality issues will be reviewed by doctors and I think that is important," he said.

When physician peers review a case, they do not know the identity of the physician involved in the case. The PRO aims for complete confidentiality and objectivity. Dr. Bradshaw advises all physicians to complete strong documentation because the PRO often reviews the charts months after the patient has received treatment. How does he respond to the criticism that the PRO second-guesses a physician when it issues a denial?

"By the nature of the fact that you are looking with hindsight, yes, that's always part of it. We have to take that into consideration when we review. There is an element of second-guessing involved," he said.

Excited about his new responsibilities, Dr. Bradshaw reminds physicians that no one can predict the future of medicine in Missouri. He believes we are in a period of transition. Above all, physicians need to remember "the ability to educate ourselves, to realize that we do have errors that occur from time to time, and that we can take steps to remedy them. There is room for improvement."

"I don't know how things are going to come out in the next few years, but I am sure that there will be a quality review of patient care. And I think that's here to stay," Dr. Bradshaw said.

"Whether it will be done by PROs or by some unnamed individual or groups I don't know, but I'm sure the process will continue."

He continued, "There are a lot of people who believe that we are headed for a capitation pay system or system of socialized medicine. No one can predict political whims, but we are in a state of change. It's not going to be what we have now, it's not going back to what we had several years ago where there was no control, but we will see, I think, progressively, the quality being monitored. And I think that is good. I think the profession has always been used to some degree of it but perhaps not quite the degree that we will have in the future. We have always monitored ourselves, so this (peer review) is not new."

In talking with Dr. Bradshaw, his honesty and sincerity are evident. He *wants* the PRO to work for the *betterment* of the healthcare provided by Missouri's physicians and hospitals. He recites his favorite philosophy as a guideline for the conduct of peer review in Missouri:

"Does it uphold the truth? Is it fair to all concerned? Will it build bonds of friendship and goodwill? Will it be beneficial to all involved?"

Federally mandated peer review will continue to be a part of Missouri medicine. But Dr. Bradshaw plans to make it as palatable as possible to the physicians who must work under the system. ■

℞ HEALTH CARE PROFESSIONALS
DON'T MISS
GATEWAY '87
MEDICAL EXPOSITION
AND SYMPOSIUM
November 11-12, 1987
CERVANTES CONVENTION CENTER
ST. LOUIS, MO

OVER 150 EXHIBITS

SYMPOSIUM
AIDS • Teen Suicide • Substance Abuse • Quality of Care & Assurance Changing Practice Patterns • Changing Trends in Physician Compensation • Doctor to Doctor Talk Show – KMOX Radio

SPEAKERS
Dennis O'Leary, M.D. — JCAH President
Armand E. Brodeur, M.D.
Brant S. Mittler, M.D., P.A.

FREE ADMISSION

SPONSORED BY THE ST. LOUIS METROPOLITAN MEDICAL SOCIETY

FOR MORE INFO, CONTACT ROBERT DONNELL PRODUCTIONS 800-243-9774
or the ST. LOUIS METROPOLITAN MEDICAL SOCIETY AT 314-371-5225

The Changing Face of Leukocytosis

Nancy J. Walker and Michael C. Perry, M.D.
Columbia, Missouri

A retrospective study of 57 patients with elevated WBC counts who were hospitalized in 1985 demonstrates a striking etiologic contrast with similar patients hospitalized between 1946 and 1949. The modern-day patients showed a preponderance of leukemias as the cause of their leukocytosis. Forty years ago, infection was the leading cause.

Extreme peripheral leukocytosis has been noted to accompany a variety of disease states including sepsis, severe hemorrhage and hemolysis, bone marrow toxicity, malignant neoplasms — with and without bone marrow involvement — and most forms of leukemia.[1] In 1926 Krumbhaar coined the term "leukemoid reaction" to describe cases in which the hematologic picture was not sufficient to distinguish various forms of leukemia from non-leukemic conditions.[2, 3]

It is not difficult to differentiate the cause of a leukocytosis when the history, clinical presentation, and presenting hematopathology are considered. Occasionally there will be cases with confusing clinical and pathologic presentations in which various diagnostic studies will fail to differentiate leukemia from a leukemoid reaction. At this point, proof of the diagnosis may rest with extended follow-up or even with an autopsy.

This subject has not been recently reviewed and we were unable to identify any comprehensive review of cases involving markedly elevated white blood cell counts since 1951. At that time, Hughes and Higley reviewed 63 cases involving WBC counts > 40,000/mm^3 over a four-year period.[6] Now, 35 years later, we felt a survey of cases involving elevated WBC counts might give different results from the findings of this previous study. Today, in a growing number of cases, extreme leukocytosis is due to one of the leukemias, as opposed to 35 years ago when the majority of the time, leukocytosis was due to sepsis or non-hematologic malignancies. Our purpose in studying cases involving extremely elevated WBC counts was to discover which were documented leukemias and which were truly leukemoid reactions.

A leukemoid reaction is a relative or absolute increase in the number of circulating WBCs to such a degree that there is a hematologic resemblance to an acute or chronic leukemia.[4] Leukemoid reactions can occur as the result of proliferation of leukocytes of the myeloid, lymphoid and, rarely, the monocytic cell lines, all with varying degrees of maturity.[1]

Hill and Duncan defined a leukemoid reaction as a leukocyte count of 50,000/mm^3 or more with immature cells of the blast type present.[2] We chose to define a leukemoid reaction as a reaction in which the WBC count was greater than 50,000/mm^3, with or without the presence of immature leukocytes. Cases of previously diagnosed leukemia, of course, were excluded.

Materials and Methods

We reviewed 57 cases in which a patient demonstrated a WBC count greater than 50,000/mm^3 during the course of an illness. These were all of the cases which occurred from Jan. 1 to Dec. 1, 1985 at the University of Missouri-Columbia Hospital and Clinics. This institution is a large referral center serving

Extreme Leukocytosis

Cause	1946-1949 Cases #	(%)	1985 Cases #	(%)
1. Leukemia	20	31.7	25	43.9
2. Sepsis	26	41.3	13	22.8
3. Extra-Hematopoietic Tumors	2	3.2	7	12.3
4. Hemorrhage/Hemolysis	6	9.5	0	0.0
5. Other	9	14.3	12	21.0
Total # of cases	63	100.0	57	100.0

a population of approximately 200,000. The diagnosis of leukemia or a preleukemic state was determined in each case by clinical findings, bone marrow aspiration and biopsy, with or without phenotypic identification by flow cytometry or autopsy.

Results

Of the 57 cases reviewed, 25 (43.9%) were due to leukemia, 13 (22.8%) could clearly be attributed to sepsis, seven (12.3%) were due to extra-hematopoietic tumors not involving the bone marrow, and 12 (21.9%) fell into the category entitled "other." This last category encompassed a variety of diseases, including myeloproliferative disorders (1), polycythemia rubra vera (2), thrombocytopenia with absent radius syndrome (1), eclampsia (1), hemolytic uremic syndrome (1), hypereosinophilia mimicking rheumatoid arthritis (1), systemic lupus erythematosis (1), and prematurity in an infant (3), with only one of these cases possibly due to sepsis.

Leukemias were the largest group of disorders causing extreme leukocytosis. Twenty-five cases of leukemia included eight classified as chronic lymphocytic leukemia, seven as chronic myelogenous leukemia, five as acute myelogenous leukemia, three as acute lymphoblastic leukemia, and two as acute undifferentiated leukemia.

Discussion

In 1941, Hill and Duncan claimed that tuberculosis was the most common cause of leukemoid reactions, followed by sepsis and non-hematologic malignancies.[5] Hughes and Higley's study of 63 cases of elevated WBC counts occurring in a four-year period from 1946-1949 found that 26 (41%) of these were due to infection, and 20 (31%) were due to leukemia. Six (9.5%) of the 63 cases were due to hemorrhage and/or hemolysis, with the remaining 11 (17%) cases falling into a miscellaneous category that included leukemoid reactions due to dehydration (2), neoplasm (2), myocardial infarction (2), necrotic bowel (1), acute pulmonary edema (1), massive atelectasis (1), status asthmaticus (1), and infectious mononucleosis (1).[6] (Table)

Conclusion

We noted several differences between the cases in our study and those in the studies by Hill and Duncan, and Hughes and Higley. First, we noted a greater percentage of non-hematopoietic tumors causing leukemoid reactions — 3.2% in early studies, and 12.3% in our study. Second, and more importantly, both of the earlier studies cited infection or sepsis as the most common cause of leukocytosis, with leukemia the second most common. A review of our cases of elevated WBC counts showed that the most common cause at our institution is leukemia, with sepsis the second most common. We believe that these differences are significant and reveal a real change in the etiology of leukocytosis. Factors contributing to this change may be the complexity of leukemia treatment, which results in more referrals of leukemic patients to tertiary care hospitals, and improved outpatient treatment of infections with antibiotics, leading to fewer hospitalizations.

References

1. Williams WJ, et al (eds): *Hematology*, ed 3. New York, McGraw-Hill, 1983, p794.
2. Krumbhaar EB: Leukemoid blood pictures in various clinical conditions. *Am J Med Sci* 1926;172:519-533.
3. Hilts SV, Shaw CC: Leukemoid blood reactions. *NEJM* 1953;249:434-438.
4. Fitz-Hugh T Jr: Leukemoid blood reactions; differential diagnosis of conditions which may stimulate leukemias. *Penn Med Journal* 1932;35:290-293.
5. Hill JM, Duncan CN: Leukemoid reactions: *Am J Med Sci* 1941;201:847-857.
6. Hughes WF, Higley CS: Marked leukocytosis resulting from carcinomatosis. *Ann Intern Med* 1952;37:1985.

The Authors

NANCY J. WALKER
MICHAEL C. PERRY, M.D.

Ms. Walker is a medical student at the University of Missouri-Columbia School of Medicine. Dr. Perry is professor and chairman of the Department of Medicine at the medical school.

Reprints

Nancy J. Walker
Department of Medicine
MA406C Medical Sciences Building
1 Hospital Drive
Columbia, Missouri 65212

Leprosy in Missouri

T. Ulf Westblom, M.D.,
Huntington, West Virginia
and James A. Roller, M.D.,
Columbia, Missouri

Two case reports demonstrate that leprosy still occurs in this country. World travel to countries where the disease is prevalent, and immigration from those locales, would account for most of the cases Missouri physicians are likely to encounter.

Leprosy is a chronic infection caused by *Mycobacterium leprae*. Between 12 million and 15 million people are infected worldwide, mostly in Asia and Africa.[1] Leprosy is also regularly diagnosed in the United States, however. There were 254 new cases reported in 1986 to the Centers for Disease Control in Atlanta.[2] The majority of these cases were imported, but at least 10% were indigenous.[3] With increasing numbers of refugees, immigrants, and illegal aliens from endemic countries entering the United States, practicing physicians need to be familiar with this disease. We present two cases — one a refugee and the other a native-born American — to highlight some of the features of leprosy.

Case Reports

Case 1. A 55-year-old man had chronic skin lesions on his face and extremities. He had been born and raised in Oklahoma, and had lived in a small town in Missouri since 1950. In 1971 he developed scattered annular skin lesions, 3 cm to 12 cm in diameter, with some areas of depigmentation on his neck. During the early 1970s he was evaluated at several Arkansas and Missouri hospitals and had received several diagnoses, including erythema multiforme, fungal infection, and brown recluse spider bite. On one occasion a skin biopsy was reported as erythema annulare centrifugum. In 1977 he was found to have decreased sensation in his feet and hands, resulting in occult injuries. He also complained of easy fatigability, anorexia and weight loss. The patient's condition continued to deteriorate gradually over the next couple of years. When we saw him in 1981 he appeared chronically ill. The skin on his face was diffusely indurated and he had multiple nodules on his ears and face (Fig 1). His nose was saddle-shaped and his eyes had bilateral corneal abnormalities. Body hair was sparse and his eyebrows and nails were almost obliterated. Neurological examination showed intact deep tendon reflexes but uniformly diminished touch and pain sensation in all four extremities and on his face. Both hands and feet showed chronic deep ulcers, and his hands were claw-shaped with shortened fingers (Fig 2 and 3). Laboratory findings were remarkable for a sedimentation rate of 111 mm/hr and a false-positive RPR test. A biopsy specimen was taken from one of the facial nodules and prepared with Fite-Faraco stain. Abundant numbers of *M. lepra* bacilli were seen in each section, and a diagnosis of lepromatous leprosy was made.

In the 1940s the patient had served in the Merchant Marines and visited Panama, Japan, Guam, the Philippines, and the Middle East. He had had no known exposure to leprosy, but we suspect that the patient acquired his infection during this foreign travel. Because of the advanced stage of his disease, the patient was referred to the Public Health Service Hospital in Carville, La., for treatment and special orthotics.

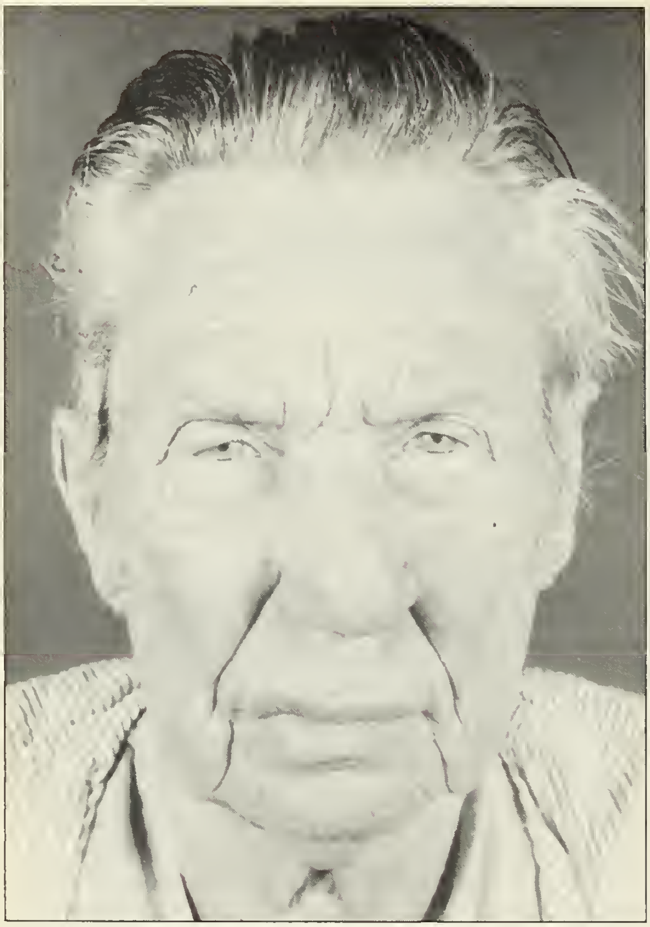


Fig 1: Thickening of facial skin, loss of facial hair and deformity of nasal bridge (Case 1).

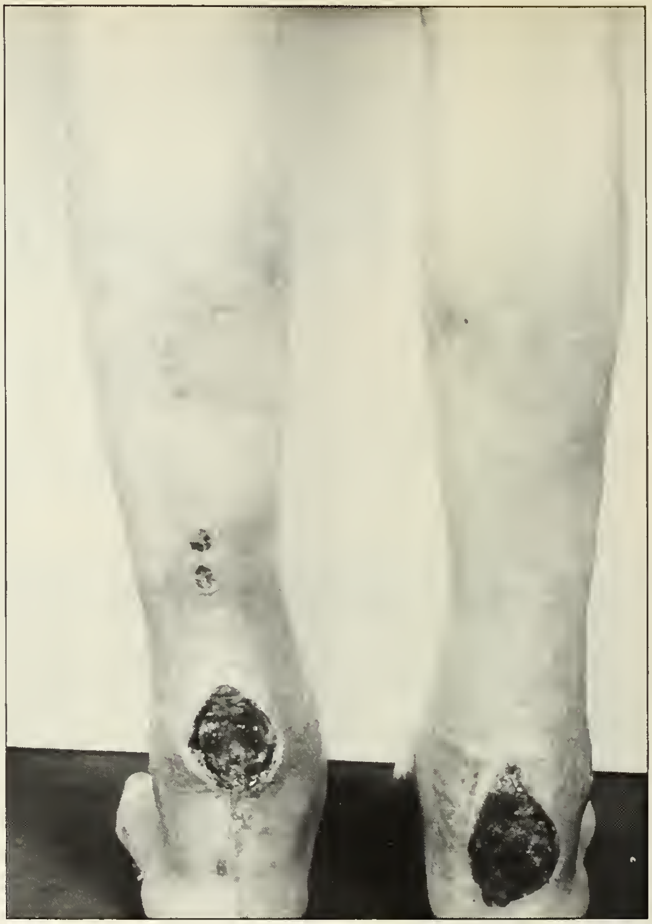


Fig 2: Chronic deep ulcers (Case 1).

Case 2. A 79-year-old Laotian woman was hospitalized for left shoulder pain six months after immigrating to a rural Missouri community. A dermatologic consultation was obtained to evaluate her facial skin lesions. The patient had developed these skin lesions the year before her immigration and had noticed weakness and decreased sensation in the right leg three years earlier. Soon after arriving in Missouri she began experiencing sharp pains in the right leg and left shoulder.

Physical examination revealed well-circumscribed, infiltrated, anesthetic papules and plaques on the forehead, cheeks, and chin. The right leg was covered by a dry, scaling anesthetic lesion with a raised edge. There was a right foot drop, anterior tibial atrophy, and thickening of the peroneal nerve. Skin biopsy showed epithelioid tubercles surrounded by a dense lymphocytic infiltrate. A Fite-Faraco stained specimen showed no organisms. A diagnosis of borderline leprosy was made. The patient received 25 mg of dapsone (DDS) by mouth twice daily, and her lesions gradually cleared. Her 11 family members were also examined but had no evidence of leprosy.

Discussion

Mycobacterium leprae is a slow-growing bacterium — the incubation time for leprosy is three to 10 years.[1] Leprosy can appear in several forms.

Tuberculoid leprosy typically involves a flat, hypopigmented area of skin with a sharply defined, raised border. The skin within the border is hypesthetic or anesthetic. These lesions may be single or few and are asymmetrically distributed.[1]

Lepromatous leprosy initially shows erythematous or hypopigmented macules that may evolve into papules, nodules or plaques.[1] There is diffuse thickening of the facial skin, and left untreated, the interior of the nose commonly becomes involved. The septum may show bleeding, perforation or collapse, as seen in our first case.[4] Other organs commonly involved are the anterior segment of the eye and the testis.[1]

Borderline leprosy shares features of both other groups. Apart from the skin manifestations, leprosy also characteristically affects nerve endings, frequently causing peripheral sensory and motor defects, as demonstrated in both our patients.

The diagnosis of leprosy is best made through

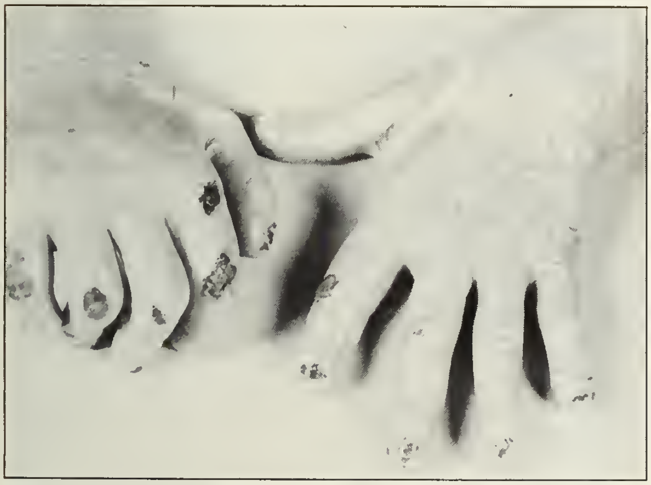


Fig 3: Shortened fingers with chronic ulcerations and claw hand deformity (Case 1).

skin biopsy.[4] There are no laboratory tests that are diagnostic and the organism cannot be grown on microbiological media.

Treatment consists of a regimen of dapsone 100 mg per day and rifampin 600 mg per day for six months in tuberculoid leprosy, and for three years in lepromatous leprosy.[4] With this regimen, it is not necessary to add clofazimine. This drug is commonly used in other parts of the world, but has side effects, such as skin pigmentation.[5] Close contacts of the patients should be examined, but the rate of transmission is low. Only some 5% of spouses living with a patient with leprosy have contracted the disease.[1]

The key element in managing these patients is making the correct diagnosis. In the United States there is an average delay of two years between a patient's first visit to the physician and diagnosis.[1] Increased awareness of the clinical features of this disease could shorten that time considerably.

References

1. Binford CH, Meyers WM, Walsh GP: Leprosy. *JAMA* 1982;247:2283-2292.
2. Centers for Disease Control: Cases of specified notifiable diseases. *MMWR* 1987;35:811.
3. Neill MA, Hightower AW, Broome CV: Leprosy in the United States, 1971-1981. *J Inf Dis* 1985;152:1064-1069.
4. Pust RE, Campos-Outcalt D: Leprosy in the United States. Risks, recognition, regimens, resources. *Postgrad Med* 1985;77(5):151-159.
5. Scott MJ III, Scott MJ Jr: Leprosy. Signs and symptoms you should recognize and treat. *Consultant* 1985;25(12):122-130.

The Authors

T. ULF WESTBLOM, M.D.
JAMES A. ROLLER, M.D.

Dr. Westblom, formerly a fellow in infectious diseases at the University of Missouri-Columbia School of Medicine, is now with the Section of Infectious Diseases, Marshall University School of Medicine at Huntington, West Virginia. Dr. Roller is from the Department of Dermatology, UMC Medical School.

Reprints

T. Ulf Westblom, M.D.
Marshall University School of Medicine
Department of Medicine
Section of Infectious Diseases
Huntington, West Virginia 25701

Thermography of the Curved Living Skin Surface

Charles J. Ash, M.D., Edward Gotti, M.D., and Chris H. Haik, R.N.
Springfield, Missouri

Thermography is often advocated as a test for the presence of trigger points and nerve root irritation. In this report, the authors point out potential sources of error in the technique, including the natural curvature of body surfaces.

Previous articles have documented some of the potential problems and pitfalls in thermography[1-9], but the errors involved when imaging curved surfaces of the living body with color-coded isotherms have not been directly addressed. Proponents claim thermography can provide objective evidence for back injuries by showing temperature changes in dermatomal distribution.[10, 11] In addition, specific thermal changes have been described at so-called "trigger points." However, unique pathways must be postulated to explain circular or discoid areas of temperature change associated with painful trigger points, and these must be clarified. This is particularly true since no test has previously been available to provide objective documentation for this controversial condition. These temperature changes have generally been described with infrared thermography,[12-14] but similar findings have been reported with liquid crystal thermography.[15, 16] It has been suggested that pain in the soft tissues produces a reflex that travels along sympathetic pathways to produce a vascular response, usually vasodilation. Generally, a warm area from 5-10 cm in diameter is noted on a convex surface of the back. A high degree of correlation with palpable localized tenderness has been reported.[17]

Materials and Methods

To determine the amount of error actually involved when measuring curved surfaces, an infrared (IR) camera (Inframetic Model # 520-A, 1982) was employed in a draft-free room at an ambient temperature of 22° C. This detector is presumably more accurate than InSb at skin temperature due to its more appropriate IR spectral sensitivity. The color-coded temperature scale was adjusted so that each color represented a 1° C isotherm. Images were viewed on a monitor and photographed with 36mm color film. A balloon filled with approximately 2 l of water at 26° C was placed on a stand and viewed at a distance of 1 m. Using an electric thermistor thermometer with a banjo probe, temperature measurements of the balloon surface were reproducible within a 0.2° C range. Such a balloon is isothermic with an emissivity of approximately 0.95, and in this respect is comparable to the bald human head. The balloon was rotated 90°, 180°, and 270°, and photographed in each position.

Results

Four distinct colors were seen in each view, representing a 4° C range (Fig 1). By adjusting the scale in either direction and maintaining 1° C color separations, a central warm area became readily apparent. As the balloon was rotated each 90°, the central warm area remained at the site closest to the camera, consistently measuring 5-10 cm in diameter and representing a 1° C higher temperature. An accurate method of imaging would register only one color (Fig 2). The temperature of the balloon did not drop appreciably in the 30 sec required to obtain the photographs. Temperature decrease was 2° C per hour.

The balloon temperature recordings were compared to actual thermograms of the back, which

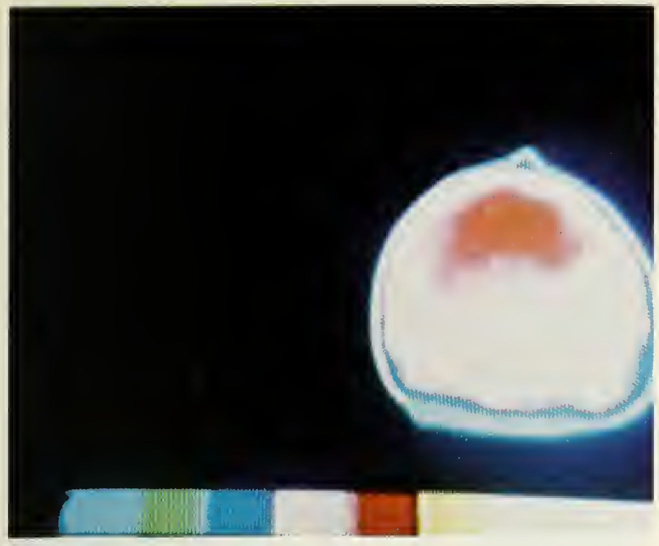


Fig 1A. Thermographic imaging of a balloon filled with 2 l water at a temperature of 26° C.

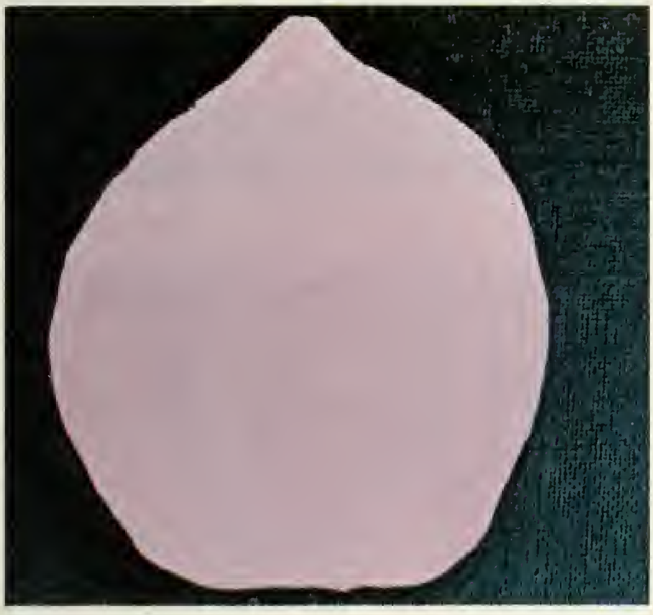


Fig 2. Drawing of a theoretical isothermic balloon, using imaging techniques with less than 0.5° C error. Each color represents a 1° C temperature range.

showed trigger points (Fig 3). Trigger points are almost invariably associated with warmer temperatures centrally and cooler areas at the periphery of the curved convex surface. The positive thermograms demonstrate a one-color temperature increase in the area where the tangential axis is somewhat perpendicular to the optical axis of the camera. Due to the gradual curvature of the back, the additional 2° C color changes appear only at the periphery. The appearance of the central red area of the balloon is indistinguishable from the thermographic changes associated with trigger points.

After we noted this apparent relationship of a positive thermogram and a curved surface, we reviewed 300 separate thermographic views of the limbs.[18, 19] The same relationship was found in these thermograms, almost without exception (Fig 4). For example, with the subject facing the camera, the anterior calves appear 1°-2° hotter than the medial and lateral calves. When facing away, the posterior calves appear 1°-2° hotter than the medial and lateral calves. However, when turned 90° laterally, the sides of the calves facing the camera appear 1°-2° hotter than either the anterior or posterior surfaces. The gradual physiological decrease in temperature from proximal to distal in the limbs results in a "barber pole" configuration on the thermogram[20] (Fig 5). This configuration bears a general resemblance to Keegan's sensory dermatomes in the limbs.[21] A theoretical explanation is suggested in a set of drawings (Fig 6). In the facial thermograms, there appears to be a 3°-4° C difference between the cheeks and forehead when the subject faces the camera (Fig 7).

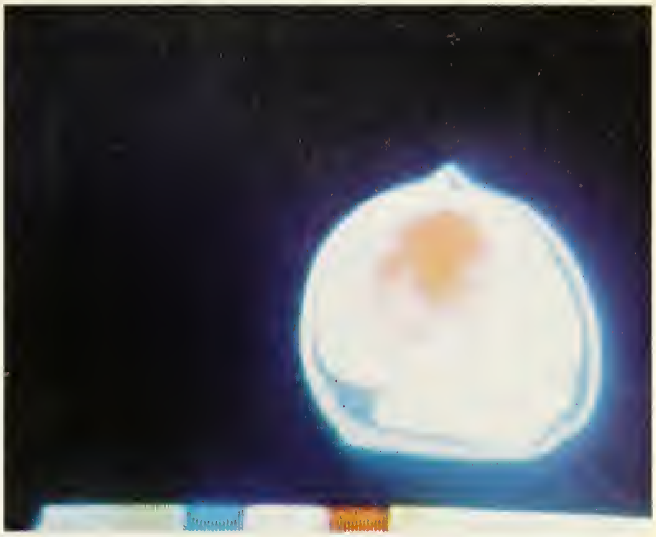


Fig 1B. Balloon has been rotated 90°. A central area appearing very similar to a trigger point remains at the identical position relative to the camera. The balloon is isothermic and should be a constant color throughout, yet four distinct color bands representing 4° C changes are present.

Discussion

During review of the literature, we noted a striking resemblance between current black and white thermograms of the face and similar thermograms taken in 1970 by Watmough and Oliver[22] of Oxford, England (Figs 8A, 8B). Watmough's thermograms suggested an error of 4° C or more. The bright white forehead and perioral regions contrast sharply with the dark black cheeks and nose. Watmough also imaged a Perspex balloon filled with warm water, producing a similar contrast. The central area — its tangent perpendicular to the camera — is white or hot, and the curved outer surfaces are black or cold. There also appears to be a cold seam running vertically in the center (Fig 8C). Of course, the balloon is iso-

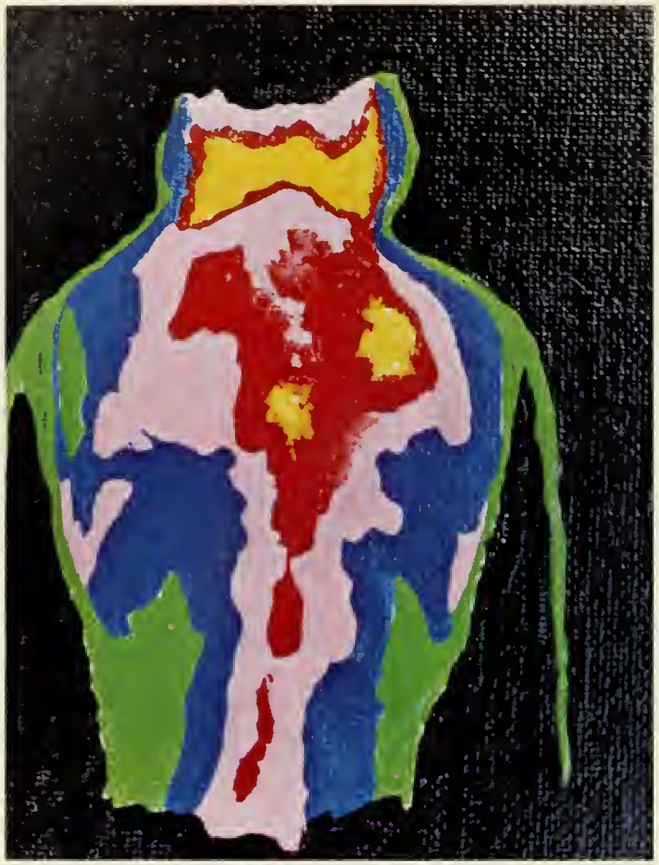


Fig 3. Drawing of a typical thermogram demonstrating an apparent trigger point (1° C increase) at the apex of a convex surface (yellow area, right scapula).

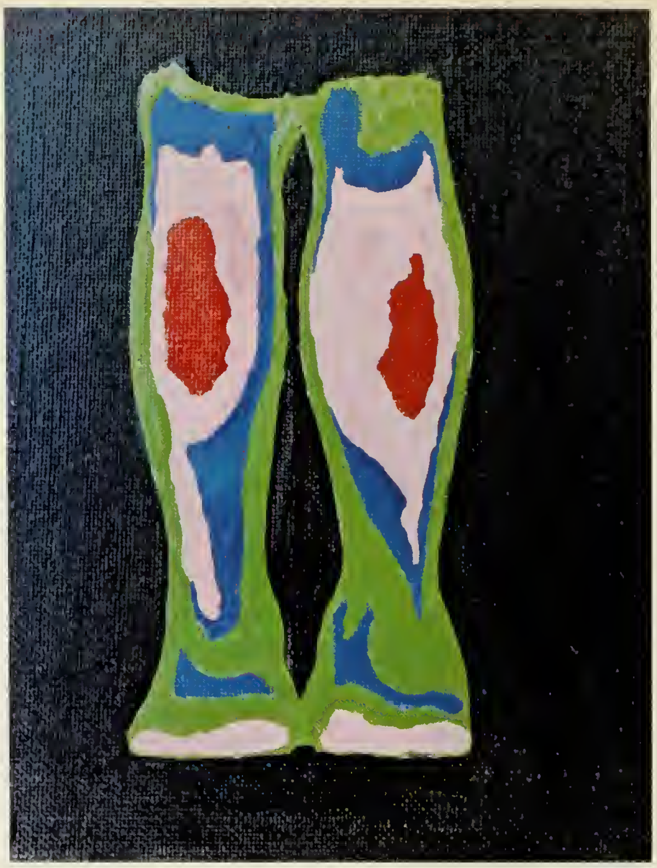


Fig 4A. Drawing of typical thermogram showing anterior view of lower legs.

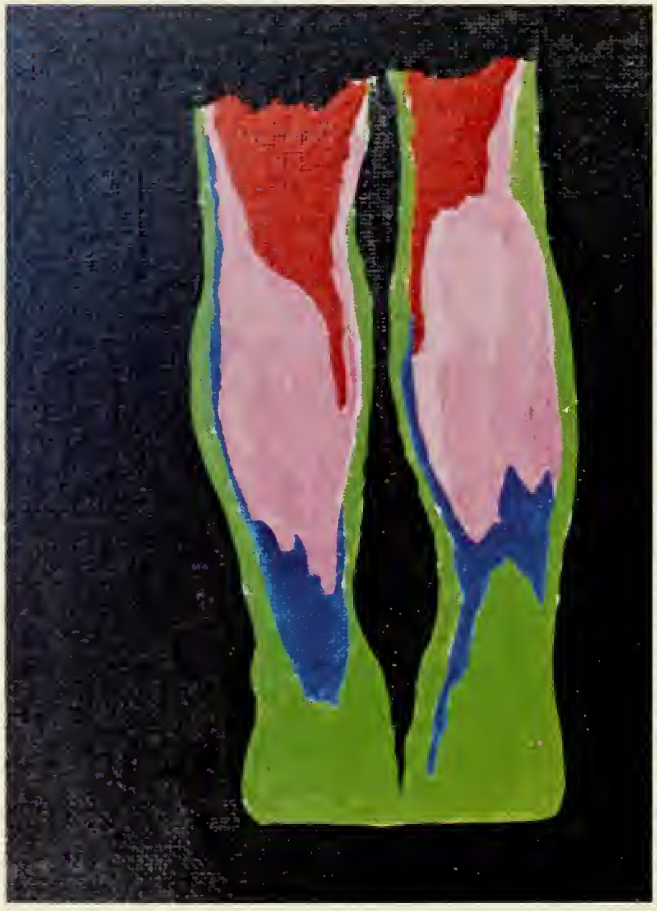


Fig 4B. Drawing of posterior thermographic view of lower legs.

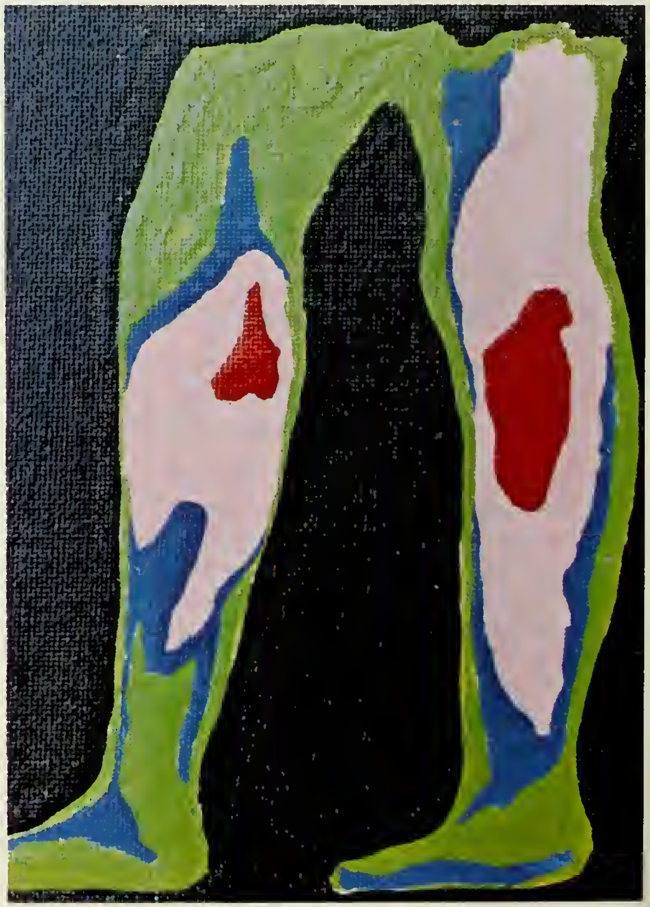


Fig 4C. Drawing of the lateral thermographic view of the lower legs. Note that the same apparently warmer areas appear centrally in each view, with cooler areas peripherally.

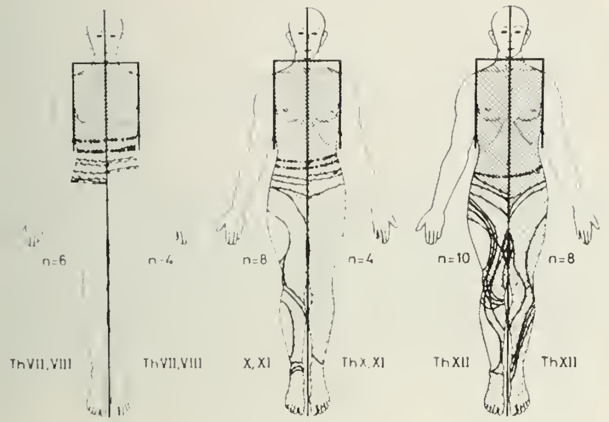


Fig 5. Helical pattern described by Normell.[20] (Reproduced with permission)

thermic and should show no color change. These studies were performed with AGA thermography using InSb detectors. In 1977, Martin & Watmough[23] modified the original equations to include a factor for background radiation and attempted to limit the conclusions of the previous work. However, the obvious contrasts in black and white thermography of the face and balloon were not explained. There appears to be a significant error, even when the peripheral edges (beyond 65°) are excluded.

These IR detectors are essentially the same as the detectors used throughout the neuromuscular thermography literature, and their shortcomings have previously been reported.[24, 25] Briefly, the peak spectral infrared radiation at a temperature of 27° C is 9.7 μ. InSb detectors respond only to infrared radiation at wavelengths shorter than 5.6 μ (Fig 9). This amounts to approximately 5% of the total emitted radiation from a black body at 27° C. And at this position of the spectrum, the emissivity of living skin is considerably less than unity. In an attempt to avoid this source of error, many of the newer thermographic units are equipped with HgCdTe detectors similar to the one used in this study.

Tichauer[26] in 1977 seems to have anticipated the current direction of infrared thermography. He correctly described several factors that prevent an accurate measurement of skin temperature and suggested that the *patterns* produced, rather than the actual temperature measurement might be more appropriate for study. He, however, did not refer to the problems of measuring curved surfaces.

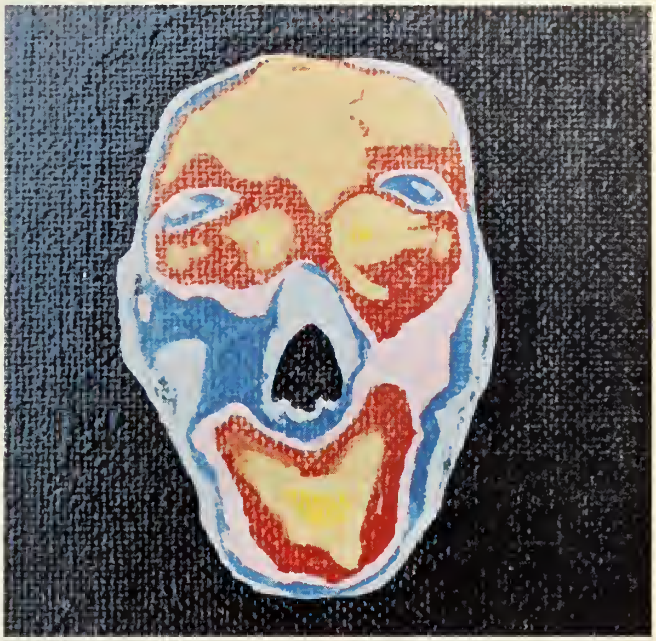


Fig 7. Drawing of typical thermogram of the face.

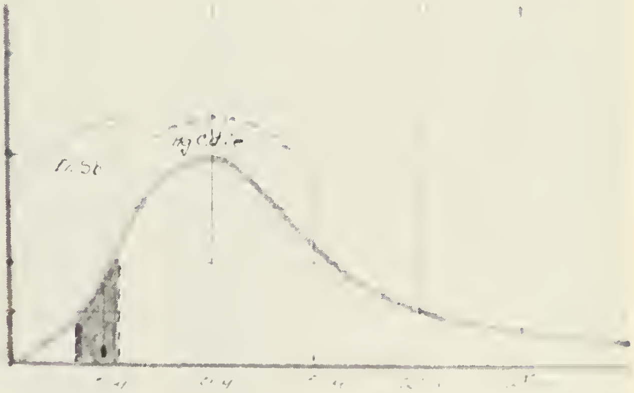


Fig 9. Graph depicting the spectral radiation of a black body at 27° C, showing the peak emission at 9.7 μ and the spectral range of InSb detectors with a cutoff at 5.6 μ.

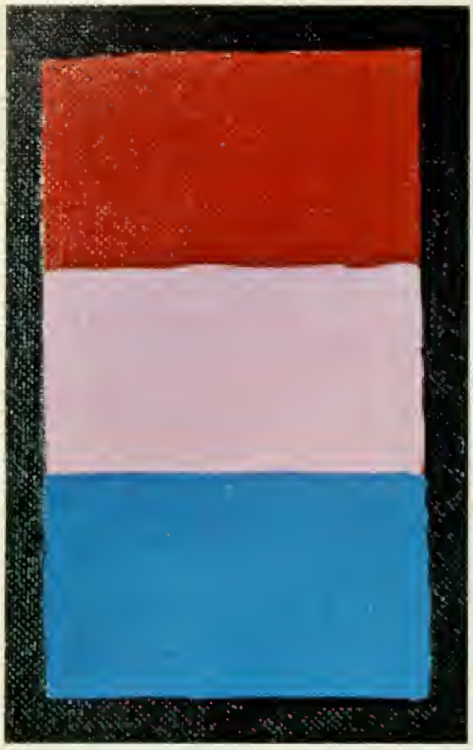


Fig 6A.

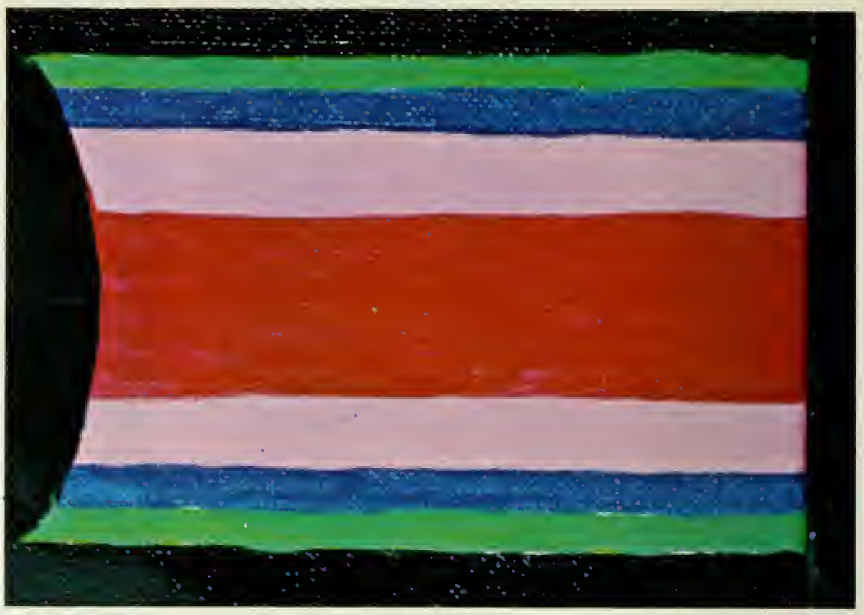


Fig 6B.

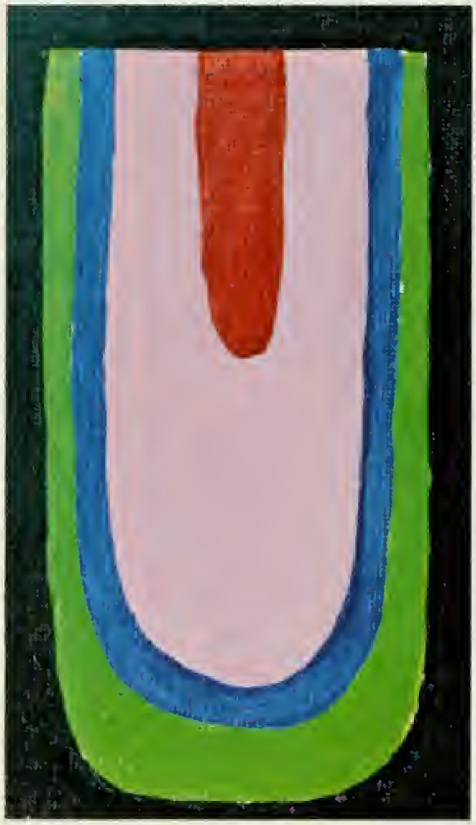


Fig 6C.

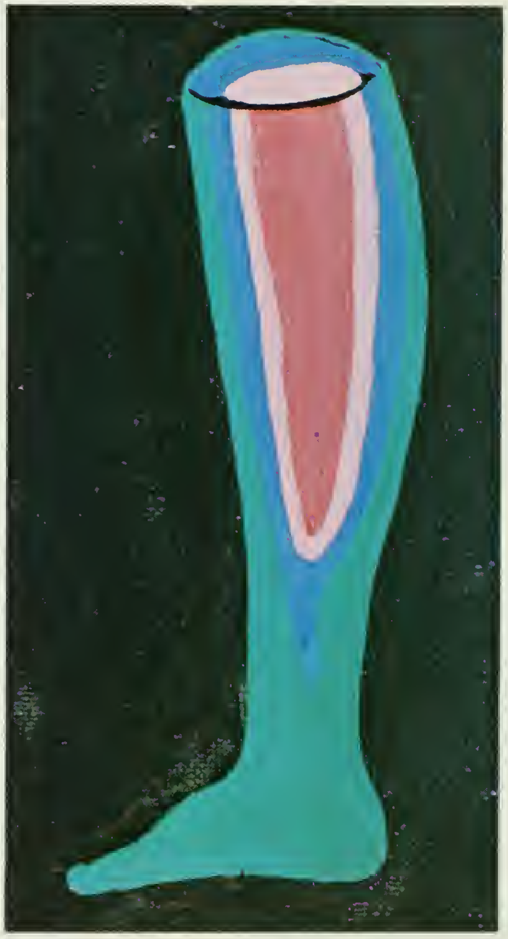


Fig 6D.

Fig 6A. Illustration of the normal decrease in skin temperature as one proceeds distally down a limb. **Fig 6B.** Illustration of thermographic error introduced by a curved surface. **Fig 6C.** Illustration of the combination of the distal cooling effect and the curved surface error. **Fig 6D.** Illustration of the combined effects of distal cooling and curved surface as they would appear in the thermogram of a leg. The combination of the effects in the limb explain, in theory, the appearance of dermatomal lines on thermograms.

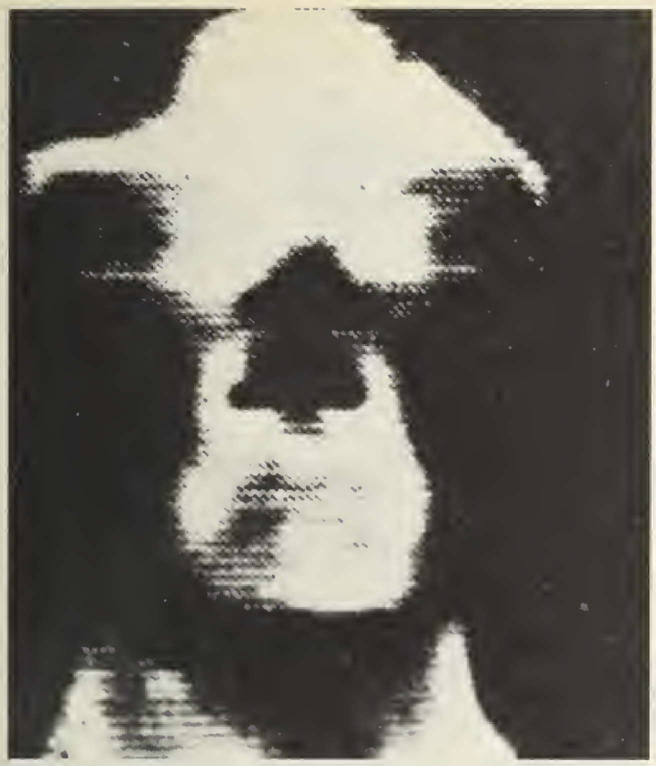


Fig 8A. Watmough's[22] black and white thermogram of the human face. (Reprinted with permission)

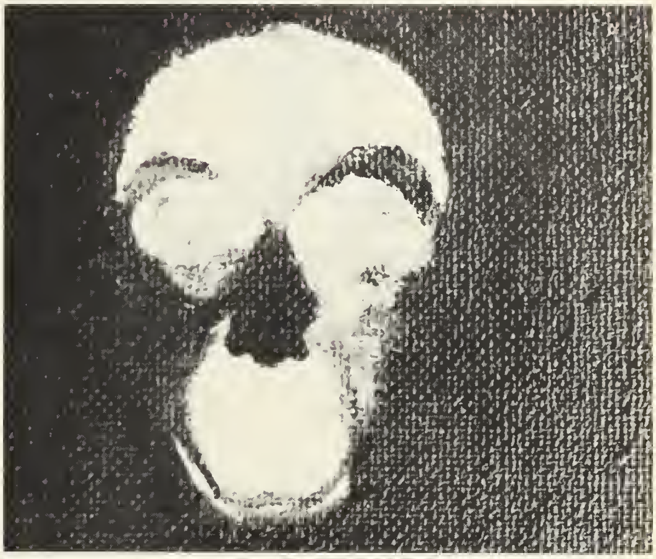


Fig 8B. Representation of current black and white thermograms. Note the similarity between this and Fig 8A.

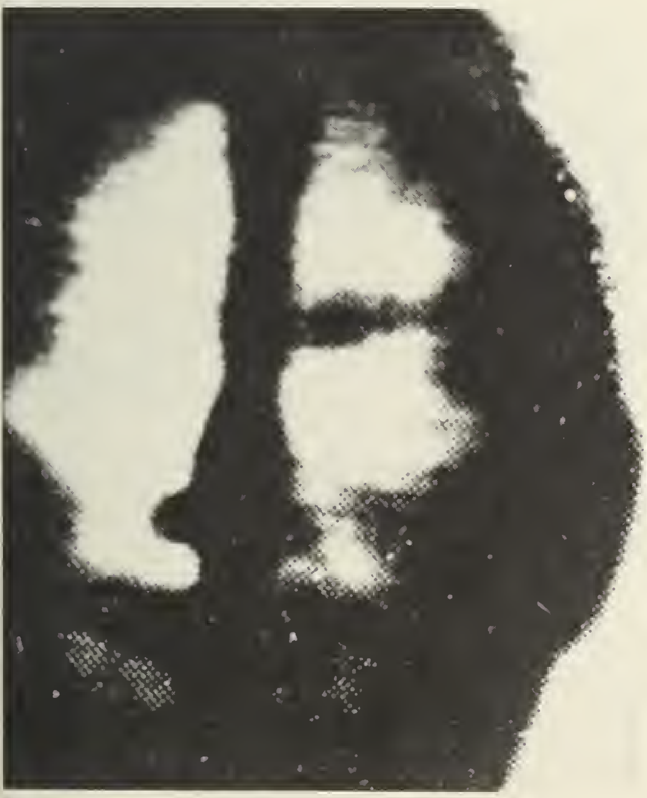


Fig 8C. Watmough's thermogram of a Perspex balloon, demonstrating similar temperature differences. (Reprinted with permission)

One of the greatest engineering compromises in thermographic imaging involves real-time imaging.[27] The lower frequencies and longer wavelengths of the infrared spectrum, which are emitted at 20°-35° C, produce much less energy and require longer photographic exposure time than visible light. One hundred to 200 elements per line and 100-200 lines per frame at a frame rate of 16 per second are required to produce real-time imaging with subjective clarity. Sufficient exposure time to prevent wave cutoff and resultant error appears impossible. Various sources of error are listed in Table 1.

Newer thermographic units have been developed with rotary scanning, and multiple detectors have been constructed to use stored and compiled images. These appear to correct much of the error described.[28, 29] The authors still consider these units experimental research tools.

Conclusions

The margin of error associated with thermographic imaging of "trigger points," "thermatomes," or dermatomes on curved surfaces of the body appears prohibitive. The error of measurement (1° C-3° C) is much greater than the temperature changes that are described as diagnostic of the pain of nerve fiber irritation or trigger points. It is highly unusual to see asymmetry of more than one color change (0.1° C-1.0° C) in a thermographic report. With a potential error of three degrees, these positive findings fall well within the error range of the recording techniques.

Table 1

Some Other Sources of Error

1. *Skin emissivity less than unity (1.0)*
2. *Emissions from adjacent opposing surfaces*
3. *Unknown transmissivity of living skin under various physiological and pathological conditions*
4. *Ambient and subject temperature difference*
5. *Inadequate equilibration of subject to ambient temperature when entering from a very hot or cold external environment*
6. *Ambient illumination*
7. *Spectral sensitivity of infrared detector*
8. *Overall sensitivity of infrared detector*
9. *Engineering limitations of the recording instrument, such as drift, calibration, reference source, etc.*
10. *Lack of definition and point discrimination due to rapid scanning techniques*
11. *Stepladder effect produced by artificial color coding isotherms*

References

1. Moskowitz M, Milbrath MD, Gartside P, et al: Lack of efficacy of thermography as a screening tool for minimal and stage I breast cancer. *N Engl J Med* 1976;295:249-252.
2. Threatt B: Thermography and breast cancer — an analysis of a blind reading. *Ann NY Acad Sci* 1980;335:501-527.
3. Moskowitz M: Screening for breast cancer: how effective are our tests? A critical review. *CA* 1983;33:26-39.
4. Abraham EA: Thermography: Uses and abuses. *Contemp Orthop* 1984;8:95-99.
5. Goldie I: Is thermography more than an adjuvant in orthopedic diagnostics? *Orthop* 1985;8:1128-1129.
6. Mahoney L, McCulloch J, Csima A: Thermography as a diagnostic aid in sciatica. *Thermol* 1985;1:43-50.
7. Mahoney L, Patt N, McCulloch J, et al: Relation of thermography to back pain. *Thermol* 1985;1:51-58.
8. Ash CJ, Shealy CN, Young PA, et al: Thermography and the sensory dermatome. *Skeletal Radiol* 1986;15:40-46.
9. Frymoyer JW, Haugh LD: Thermography: A call for scientific studies to establish its diagnostic efficacy. *Orthop* 1986;9:699-700.
10. Wexler CE: Cervical, thoracic and lumbar thermography: A clinical evaluation. *J Neurol Orthop Surg* 1981;2:143-151.
11. Pochaczevsky R: The value of liquid crystal thermography in the diagnosis of spinal root compression syndromes. *Orthop Clin North Am* 1983;14:271-288.
12. Fischer AA: The present status of neuromuscular thermography. *Postgrad Med*, Spec No; Mar 1986:26-33.
13. Weinstein CT: The diagnosis of trigger points by thermography. *Postgrad Med*, Spec No; Mar 1986: 96-98.
14. Newman DL, Newman SE, Newman MK: Infrared imaging thermography. *Legal Aspects Med Prac* 1985;13:1-4.
15. Hobbins WB: Thermography and pain. *Biomed Thermol*, Alan R. Liss Inc. 1982:361-75.
16. LeRoy PL: Diagnostic thermography in low back pain syndromes. *Clin J of Pain* 1985;1:4-13.
17. Fischer AA: Correlation between site of pain and hot spots on thermogram in lower body. *Postgrad Med*, Spec No; Mar 1986: 99.
18. Wexler CE: Electronic thermography teaching file, Thermographic Services Inc., Tarzana, Calif.
19. Wexler CE: An overview of liquid crystal and electronic lumbar, thoracic, cervical thermography. Thermographic Services Inc., Tarzana, Calif. 1983: pp 1-35.
20. Normell LA: The cutaneous thermoregulatory vasomotor response in healthy subjects and paraplegic men. *Scand J Clin Lab Invest* [Supp] 1974;33:1-40.
21. Keegan JJ, Garrett FD: The segmental distribution of the cutaneous nerves in the limbs of man. *Anat Rec* 1948;102:409-437.
22. Watmough DJ, Oliver R: The thermal scanning of a curved isothermal surface: implications for clinical thermography. *Phys Med Biol* 1970;15:1-8.
23. Martin CJ, Watmough DJ: Thermal scanning of curved surfaces. *Acta Therm* 1977;2:18-22.
24. Watmough CJ, Oliver R: Emissivity of human skin in the waveband between 2 μ and 6 μ. *Nature* 1968;219:622-623.
25. Stolwijk JA: Evaluation of surface temperature gradients, in Uematsu S (ed): *Medical Thermography: Theory and Clinical Applications*, Brentwood Press, 1976, pp 40-51.
26. Tichauer ER: The objective corroboration of back pain through thermography. *J Occup Med* 1977;19:727-731.
27. Poole DO: Principles and instrumentation, in: Raskin M (ed): *Clinical Thermography*, ACR Comm New Tech 1977, pp 9-15.
28. Anderson JKA, Ring EFJ: 'Sprite' high resolution thermal imaging system. *Thermol* 1985;1:110-114.
29. Nagasawa A, Kazuichi Kato, Masaru Oono, et al: Developmental thermography and the characteristics of its medical application. *Thermol* 1985;1:36-42.

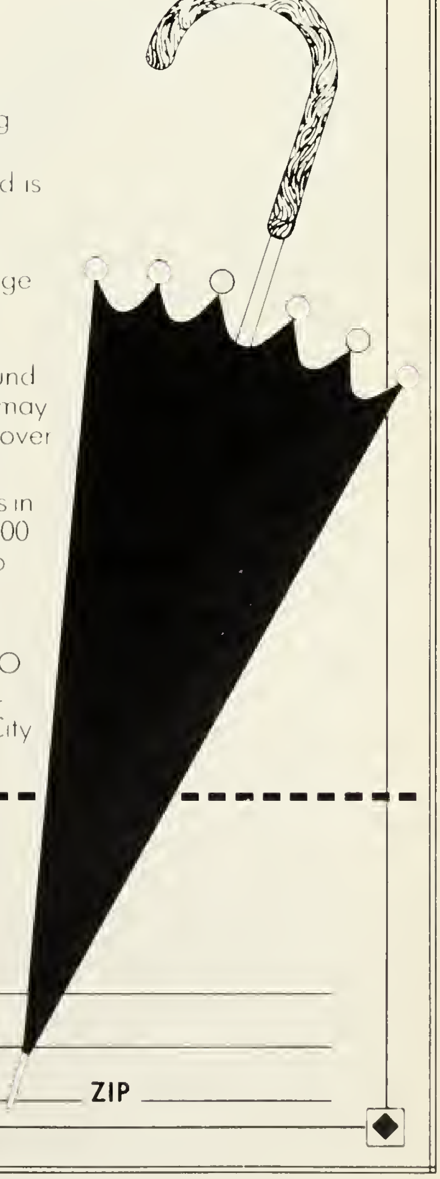
The Authors

CHARLES J. ASH, M.D.
EDWARD GOTTI, M.D.
CHRIS H. HAIK, R.N.

Dr. Ash is from the Department of Orthopaedic Surgery, Lester E. Cox Medical Center, Springfield, and is an adjunct research professor at Southwest Missouri State University in Springfield. Dr. Gotti is from the Department of Nuclear Medicine, St. John's Regional Health Center, Springfield. Ms. Haik is a registered nurse in Springfield.

Reprints

Charles J. Ash, M.D.
Cox Medical Tower
1443 N. Robberson Street
Springfield, Missouri 65802



Plan Ahead . . .

Everyone should have insurance, regardless of their profession. As a medical professional, you know the importance of having coverage that can help meet your needs for today and tomorrow.

The Missouri State Medical Association understands your needs and is able to protect you with comprehensive plans like these:

- $1,000,000 Major Medical Plan - $1,000,000 worth of solid major medical protection. Your choice of deductible. Coverage may be continued for life. Especially designed to help fill the needs of you, the medical professional, and your family.
- $250,000 Term Life - An inexpensive way to give your family sound financial protection. Pays up to $250,000 in benefits—spouses may be covered for up to $100,000. Volume discounts for coverage over $100,000. Make sure that your family is protected
- Accidental Death and Dismemberment - Avoid a financial crisis in the event of a serious accident. Just $4 a month can buy $100,000 protection for you and your family. Round the clock coverage to give your family a large measure of the protection they need

Underwritten by: The Mutual Life Insurance Company of New York

Administered by: Forrest T. Jones & Company, Inc., Kansas City, MO

For more information, CLIP THE COUPON BELOW OR CALL TOLL-FREE: National - 800-821-7303, Missouri - 800-892-7272, Kansas City 816-756-1060, ASK FOR JAN PACEY

Check the boxes below for more information on MSMA-sponsored Plans and mail this coupon to: Forrest T. Jones & Company, Inc., P.O. Box 418131, Kansas City, MO 64141-9131

☐ $1,000,000 Major Medical ☐ $250,000 Term Life ☐ $100,000 AD&D

Name ____________________

Address ____________________

City ____________ **State** ____________ **ZIP** ____________

Someone ought to give him an award!

130th Convention
MSMA

Do you know a fellow physician who deserves particular recognition for civic and community service?

The **1988 MSMA Citizenship and Community Service Award** is just such an acknowledgement.

Submit letters of nomination to

MSMA Headquarters
P.O. Box 1028
Jefferson City, MO 65102

Deadline is January 1, 1988.

130th Convention
MSMA

MARCH 17-20, 1988

REMINDER

Deadline for submitting resolutions for consideration in the 1988 MSMA House of Delegates is

FEBRUARY 1, 1988

For more information, contact
MSMA, P.O. Box 1028,
Jefferson City, MO 65102

Know what you're signing before you sign it

REVISED

Physician's Contracting Handbook

Including 101 Questions to ask before signing a contract

There is no shortage of business-minded organizations — HMOs, PPOs, and a variety of other entities — that would like to sign you onto their medical staffs. You may be knowledgeable about your medical specialty, but how do you decipher contract legalese?

How do you decide what clauses and provisions are in your best interest — and which could actually hurt your practice?

How do you determine when a contract would hinder your ability to make independent medical decisions, based on your patients' individual needs?

The MSMA has a new booklet that can help.

Developed and researched by the California Medical Association, the PHYSICIAN'S CONTRACTING HANDBOOK is a 56-page booklet that tackles specific contractual issues taken from actual contacts. By illustrating issues with actual contract language, the booklet points out typical pitfalls and shows how to avoid or renegotiate them.

The booklet concludes with a list of 101 questions you should ask before signing any contract for your medical services. A glossary defines essential antitrust terminology, and plain language clarifies sticky legal terms throughout the handbook.

Whether you are dealing with one business entity or a dozen, you shouldn't be without the information in the PHYSICIAN'S CONTRACTING HANDBOOK. The handy booklet is only $5.00 for MSMA members. ($15.00 for non-members)

Order your copy today. Send your check made out to MSMA to P.O. Box 1028, Jefferson City, MO 65102. ■

Motrin® 800 TABLETS mg
ibuprofen

Extra strength
Convenience
Economy

Upjohn
100
A Century
of Caring
1886·1986

©1986 The Upjohn Company

J-8138 January 1986

News from DISTA about a new dosage form of cephalexin

ANNOUNCING NEW

Keflet® TABLETS

cephalexin

All the advantages of cephalexin in a convenient tablet form

- Backed by over 15 years of clinical experience
- Smaller tablet is specially shaped and coated for easier swallowing
- May enhance patient compliance, particularly among the elderly
- Tablet dosage form may be appreciated by patients of all ages

NEW Keflet Tablets are available as:

250-mg Tablets

KEFLET 250
KEFLET 500

500-mg Tablets

Keflet is contraindicated in patients with known allergy to the cephalosporins and should be given cautiously to penicillin-sensitive patients.

© 1987, DISTA PRODUCTS COMPANY KX-9003-B-849326

Brief Summary. Consult the package literature for prescribing information. Indications and Usage: Keflet® Tablets (cephalexin, Dista) are indicated for the treatment of the following infections when caused by susceptible strains of the designated microorganisms:

Respiratory tract infections caused by *Streptococcus pneumoniae* and group A β-hemolytic streptococci (Penicillin is the usual drug of choice in the treatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever. Keflet is generally effective in the eradication of streptococci from the nasopharynx; however, substantial data establishing the efficacy of Keflet in the subsequent prevention of rheumatic fever are not available at present.)

Otitis media due to *S pneumoniae, Haemophilus influenzae*, staphylococci, streptococci, and *Neisseria catarrhalis*

Skin and skin structure infections caused by staphylococci and/or streptococci

Bone infections caused by staphylococci and/or *Proteus mirabilis*

Genitourinary tract infections, including acute prostatitis, caused by *Escherichia coli, P mirabilis*, and *Klebsiella* sp.

Note—Culture and susceptibility tests should be initiated prior to and during therapy. Renal function studies should be performed when indicated.

Contraindication: Keflet is contraindicated in patients with known allergy to the cephalosporin group of antibiotics.

Warnings: BEFORE CEPHALEXIN THERAPY IS INSTITUTED, CAREFUL INQUIRY SHOULD BE MADE CONCERNING PREVIOUS HYPERSENSITIVITY REACTIONS TO CEPHALOSPORINS AND PENICILLIN. CEPHALOSPORIN C DERIVATIVES SHOULD BE GIVEN CAUTIOUSLY TO PENICILLIN-SENSITIVE PATIENTS

SERIOUS ACUTE HYPERSENSITIVITY REACTIONS MAY REQUIRE EPINEPHRINE AND OTHER EMERGENCY MEASURES

There is some clinical and laboratory evidence of partial cross-allergenicity of the penicillins and the cephalosporins. Patients have been reported to have had severe reactions (including anaphylaxis) to both drugs.

Any patient who has demonstrated some form of allergy, particularly to drugs, should receive antibiotics cautiously. No exception should be made with regard to Keflet.

Pseudomembranous colitis has been reported with virtually all broad-spectrum antibiotics (including macrolides, semisynthetic penicillins, and cephalosporins); therefore, it is important to consider its diagnosis in patients who develop diarrhea in association with the use of antibiotics. Such colitis may range in severity from mild to life-threatening

Treatment with broad-spectrum antibiotics alters the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxin produced by *Clostridium difficile* is one primary cause of antibiotic-associated colitis.

Mild cases of pseudomembranous colitis usually respond to drug discontinuance alone. In moderate to severe cases, management should include sigmoidoscopy, appropriate bacteriologic studies, and fluid, electrolyte, and protein supplementation. When the colitis does not improve after the drug has been discontinued, or when it is severe, oral vancomycin is the drug of choice for antibiotic-associated pseudomembranous colitis produced by *C difficile*. Other causes of colitis should be ruled out.

Usage in Pregnancy—Safety of this product for use during pregnancy has not been established.

Precautions: *General*—Patients should be followed carefully so that any side effects or unusual manifestations of drug idiosyncrasy may be detected. If an allergic reaction to Keflet occurs, the drug should be discontinued and the patient treated with the usual agents (eg, epinephrine or other pressor amines, antihistamines, or corticosteroids).

Prolonged use of Keflet may result in the overgrowth of nonsusceptible organisms. Careful observation of the patient is essential. If superinfection occurs during therapy, appropriate measures should be taken.

Positive direct Coombs' tests have been reported during treatment with the cephalosporin antibiotics. In hematologic studies or in transfusion cross-matching procedures when antiglobulin tests are performed on the minor side or in Coombs' testing of newborns whose mothers have received cephalosporin antibiotics before parturition, it should be recognized that a positive Coombs' test may be due to the drug.

Keflet should be administered with caution in the presence of markedly impaired renal function. Under such conditions, careful clinical observation and laboratory studies should be made because safe dosage may be lower than that usually recommended

Indicated surgical procedures should be performed in conjunction with antibiotic therapy.

As a result of administration of Keflet, a false-positive reaction for glucose in the urine may occur. This has been observed with Benedict's and Fehling's solutions and also with Clinitest® tablets but not with Tes-Tape® (Glucose Enzymatic Test Strip, USP, Lilly).

Broad-spectrum antibiotics should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.

Usage in Pregnancy—Pregnancy Category B—The daily oral administration of cephalexin to rats in doses of 250 or 500 mg/kg prior to and during pregnancy, or to rats and mice during the period of organogenesis only, had no adverse effect on fertility, fetal viability, fetal weight, or litter size. Note that the safety of cephalexin during pregnancy in humans has not been established.

Cephalexin showed no enhanced toxicity in weanling and newborn rats as compared with adult animals. Nevertheless, because the studies in humans cannot rule out the possibility of harm, Keflet should be used during pregnancy only if clearly needed.

Nursing Mothers—The excretion of cephalexin in the milk increased up to 4 hours after a 500-mg dose; the drug reached a maximum level of 4 μg/mL, then decreased gradually, and had disappeared 8 hours after administration. Caution should be exercised when Keflet is administered to a nursing woman.

Adverse Reactions: *Gastrointestinal*—Symptoms of pseudomembranous colitis may appear either during or after antibiotic treatment. Nausea and vomiting have been reported rarely. The most frequent side effect has been diarrhea. It was very rarely severe enough to warrant cessation of therapy. Dyspepsia and abdominal pain have also occurred. As with some penicillins and some other cephalosporins, transient hepatitis and cholestatic jaundice have been reported rarely.

Hypersensitivity—Allergic reactions in the form of rash, urticaria, angioedema, and, rarely, erythema multiforme, Stevens-Johnson Syndrome, or toxic epidermal necrolysis have been observed. These reactions usually subsided upon discontinuation of the drug. Anaphylaxis has also been reported.

Other reactions have included genital and anal pruritus, genital moniliasis, vaginitis and vaginal discharge, dizziness, fatigue, and headache. Reversible interstitial nephritis has been reported rarely. Eosinophilia, neutropenia, thrombocytopenia, and slight elevations in SGOT and SGPT have been reported

PV 2211 DPP

|111786|

Additional information available to the profession on request from

DISTA

Dista Products Company
Division of Eli Lilly and Company
Indianapolis, Indiana 46285
Mfd by Eli Lilly Industries, Inc
Carolina, Puerto Rico 00630

"Living in the city
is lonely enough...
with herpes it's like
solitary confinement."

ZOVIRAX®
(acyclovir)
CAPSULES

Prevent genital herpes recurrences month after month with daily therapy.

(In controlled studies, recurrences were totally prevented for 4 to 6 months in up to 75% of patients.)

Please see last page of this advertisement for brief summary of prescribing information.

ZOVIRAX®
(acyclovir)
CAPSULES

Help free your patients from recurrences.

Daily therapy

Coping with genital herpes is rarely easy. For some, the worst part is the pain and discomfort of frequent attacks —month after month, year after year. For others, the emotional burden presents a more difficult problem, leading to social isolation, anxiety, and diminished self-esteem.

Prevent or reduce recurrences

Although your patients have to live with herpes, they shouldn't have to suffer. Daily therapy with ZOVIRAX CAPSULES can help free them from the cycle of recurrent genital herpes. For many, one capsule three times a day can suppress recurrences completely while on therapy.

Generally well tolerated

Daily therapy with ZOVIRAX CAPSULES is generally well tolerated. The most frequent adverse reactions reported during clinical trials were headache, diarrhea, nausea/vomiting, vertigo, and arthralgia.

The physical and emotional difficulties posed by genital herpes are unique for each patient. The frequency and severity of recurrent episodes, as well as the emotional impact of the disease, should be considered when selecting daily therapy with ZOVIRAX CAPSULES.

Please see brief summary of prescribing information on next page.

Prevent recurrences month after month*

ZOVIRAX®
(acyclovir)
CAPSULES

Brief Summary

INDICATIONS AND USAGE: Zovirax Capsules are indicated for the treatment of initial episodes and the management of recurrent episodes of genital herpes in certain patients.

The severity of disease is variable depending upon the immune status of the patient, the frequency and duration of episodes, and the degree of cutaneous or systemic involvement. These factors should determine patient management, which may include symptomatic support and counseling only, or the institution of specific therapy. The physical, emotional and psycho-social difficulties posed by herpes infections as well as the degree of debilitation, particularly in immunocompromised patients, are unique for each patient, and the physician should determine therapeutic alternatives based on his or her understanding of the individual patient's needs. Thus Zovirax Capsules are not appropriate in treating all genital herpes infections. The following guidelines may be useful in weighing the benefit/risk considerations in specific disease categories:

First Episodes (primary and nonprimary infections — commonly known as initial genital herpes):

Double-blind, placebo-controlled studies have demonstrated that orally administered Zovirax significantly reduced the duration of acute infection (detection of virus in lesions by tissue culture) and lesion healing. The duration of pain and new lesion formation was decreased in some patient groups. The promptness of initiation of therapy and/or the patient's prior exposure to Herpes simplex virus may influence the degree of benefit from therapy. Patients with mild disease may derive less benefit than those with more severe episodes. In patients with extremely severe episodes, in which prostration, central nervous system involvement, urinary retention or inability to take oral medication require hospitalization and more aggressive management, therapy may be best initiated with intravenous Zovirax.

Recurrent Episodes:

Double-blind, placebo-controlled studies in patients with frequent recurrences (6 or more episodes per year) have shown that Zovirax Capsules given for 4 to 6 months prevented or reduced the frequency and/or severity of recurrences in greater than 95% of patients. Clinical recurrences were prevented in 40 to 75% of patients. Some patients experienced increased severity of the first episode following cessation of therapy; the severity of subsequent episodes and the effect on the natural history of the disease are still under study.

The safety and efficacy of orally administered acyclovir in the suppression of frequent episodes of genital herpes have been established only for up to 6 months. Chronic suppressive therapy is most appropriate when, in the judgement of the physician, the benefits of such a regimen outweigh known or potential adverse effects. In general, Zovirax Capsules should not be used for the suppression of recurrent disease in mildly affected patients. Unanswered questions concerning the human relevance of *in vitro* mutagenicity studies and reproductive toxicity studies in animals given very high doses of acyclovir for short periods (see Carcinogenesis, Mutagenesis, Impairment of Fertility) should be borne in mind when designing long-term management for individual patients. Discussion of these issues with patients will provide them the opportunity to weigh the potential for toxicity against the severity of their disease. Thus, this regimen should be considered only for appropriate patients and only for six months until the results of ongoing studies allow a more precise evaluation of the benefit/risk assessment of prolonged therapy.

Limited studies have shown that there are certain patients for whom intermittent short-term treatment of recurrent episodes is effective. This approach may be more appropriate than a suppressive regimen in patients with infrequent recurrences.

Immunocompromised patients with recurrent herpes infections can be treated with either intermittent or chronic suppressive therapy. Clinically significant resistance, although rare, is more likely to be seen with prolonged or repeated therapy in severely immunocompromised patients with active lesions.

CONTRAINDICATIONS: Zovirax Capsules are contraindicated for patients who develop hypersensitivity or intolerance to the components of the formulation.

WARNINGS: Zovirax Capsules are intended for oral ingestion only.

PRECAUTIONS: General: Zovirax has caused decreased spermatogenesis at high doses in some animals and mutagenesis in some acute studies at high concentrations of drug (see PRECAUTIONS — Carcinogenesis, Mutagenesis, Impairment of Fertility). The recommended dosage and length of treatment should not be exceeded (see DOSAGE AND ADMINISTRATION).

Exposure of Herpes simplex isolates to acyclovir *in vitro* can lead to the emergence of less sensitive viruses. The possibility of the appearance of less sensitive viruses in man must be borne in mind when treating patients. The relationship between the *in vitro* sensitivity of Herpes simplex virus to acyclovir and clinical response to therapy has yet to be established.

Because of the possibility that less sensitive virus may be selected in patients who are receiving acyclovir, all patients should be advised to take particular care to avoid potential transmission of virus if active lesions are present while they are on therapy. In severely immunocompromised patients, the physician should be aware that prolonged or repeated courses of acyclovir may result in selection of resistant viruses which may not fully respond to continued acyclovir therapy.

Drug Interactions: Co-administration of probenecid with intravenous acyclovir has been shown to increase the mean half-life and the area under the concentration-time curve. Urinary excretion and renal clearance were correspondingly reduced.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Acyclovir was tested in lifetime bioassays in rats and mice at single daily doses of 50, 150 and 450 mg/kg given by gavage. There was no statistically significant difference in the incidence of tumors between treated and control animals, nor did acyclovir shorten the latency of tumors. In 2 *in vitro* cell transformation assays, used to provide preliminary assessment of potential oncogenicity in advance of these more definitive life-time bioassays in rodents, conflicting results were obtained. Acyclovir was positive at the highest dose used in one system and the resulting morphologically transformed cells formed tumors when inoculated into immunosuppressed, syngeneic, weanling mice. Acyclovir was negative in another transformation system considered less sensitive.

In acute studies, there was an increase, not statistically significant, in the incidence of chromosomal damage at maximum tolerated parenteral doses of 100 mg/kg acyclovir in rats but not Chinese hamsters; higher doses of 500 and 1000 mg/kg were clastogenic in Chinese hamsters. In addition, no activity was found after 5 days dosing in a dominant lethal study in mice. In 6 of 11 microbial and mammalian cell assays, no evidence of mutagenicity was observed. At 3 loci in a Chinese hamster ovary cell line, the results were inconclusive. In 2 mammalian cell assays (human lymphocytes and L5178Y mouse lymphoma cells *in vitro*), positive responses for mutagenicity and chromosomal damage occurred, but only at concentrations at least 400 times the acyclovir plasma levels achieved in man.

Acyclovir has not been shown to impair fertility or reproduction in mice (450 mg/kg/day, p.o.) or in rats (25 mg/kg/day, s.c.). At 50 mg/kg/day s.c. in the rat, there was a statistically significant increase in post-implantation loss, but no concomitant decrease in litter size. In female rabbits treated subcutaneously with acyclovir subsequent to mating, there was a statistically significant decrease in implantation efficiency but no concomitant decrease in litter size at a dose of 50 mg/kg/day. No effect upon implantation efficiency was observed when the same dose was administered intravenously. In a rat peri- and postnatal study at 50 mg/kg/day s.c., there was a statistically significant decrease in the group mean numbers of corpora lutea, total implantation sites and live fetuses in the F_1 generation. Although not statistically significant, there was also a dose related decrease in group mean numbers of live fetuses and implantation sites at 12.5 mg/kg/day and 25 mg/kg/day, s.c. The intravenous administration of 100 mg/kg/day, a dose known to cause obstructive nephropathy in rabbits, caused a significant increase in fetal resorptions and a corresponding decrease in litter size. However, at a maximum tolerated intravenous dose of 50 mg/kg/day in rabbits, there were no drug-related reproductive effects.

Intraperitoneal doses of 320 or 80 mg/kg/day acyclovir given to rats for 1 and 6 months, respectively, caused testicular atrophy. Testicular atrophy was persistent through the 4-week postdose recovery phase after 320 mg/kg/day; some evidence of recovery of sperm production was evident 30 days postdose. Intravenous doses of 100 and 200 mg/kg/day acyclovir given to dogs for 31 days caused aspermatogenesis. Testicles were normal in dogs given 50 mg/kg/day, i.v. for one month.

Pregnancy: *Teratogenic Effects:* Pregnancy Category C. Acyclovir was not teratogenic in the mouse (450 mg/kg/day, p.o.), rat (50 mg/kg/day, s.c.) or rabbit (50 mg/kg/day, s.c. and i.v.). There are no adequate and well-controlled studies in pregnant women. Acyclovir should not be used during pregnancy unless the potential benefit justifies the potential risk to the fetus. Although acyclovir was not teratogenic in animal studies, the drug's potential for causing chromosome breaks at high concentration should be taken into consideration in making this determination.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Zovirax is administered to a nursing woman. In nursing mothers, consideration should be given to not using acyclovir treatment or discontinuing breastfeeding.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS — Short-Term Administration: The most frequent adverse reactions reported during clinical trials were nausea and/or vomiting in 8 of 298 patient treatments (2.7%) and headache in 2 of 298 (0.6%). Less frequent adverse reactions, each of which occurred in 1 of 298 patient treatments (0.3%), included diarrhea, dizziness, anorexia, fatigue, edema, skin rash, leg pain, inguinal adenopathy, medication taste and sore throat.

Long-Term Administration: The most frequent adverse reactions reported in studies of daily therapy for 3 to 6 months were headache in 33 of 251 patients (13.1%), diarrhea in 22 of 251 (8.8%), nausea and/or vomiting in 20 of 251 (8.0%), vertigo in 9 of 251 (3.6%), and arthralgia in 9 of 251 (3.6%). Less frequent adverse reactions, each of which occurred in less than 3% of the 251 patients (see number of patients in parentheses), included skin rash (7), insomnia (4), fatigue (7), fever (4), palpitations (1), sore throat (2), superficial thrombophlebitis (1), muscle cramps (2), pars planitis (1), menstrual abnormality (4), acne (3), lymphadenopathy (2), irritability (1), accelerated hair loss (1), and depression (1).

DOSAGE AND ADMINISTRATION: Treatment of initial genital herpes: One 200 mg capsule every 4 hours, while awake, for a total of 5 capsules daily for 10 days (total 50 capsules).

Chronic suppressive therapy for recurrent disease: One 200 mg capsule 3 times daily for up to 6 months. Some patients may require more drug, up to one 200 mg capsule 5 times daily for up to 6 months.

Intermittent Therapy: One 200 mg capsule every 4 hours, while awake, for a total of 5 capsules daily for 5 days (total 25 capsules). Therapy should be initiated at the earliest sign or symptom (prodrome) of recurrence.

Patients With Acute or Chronic Renal Impairment: One 200 mg capsule every 12 hours is recommended for patients with creatinine clearance ≤ 10 ml/min/1.73/m².

HOW SUPPLIED: Zovirax Capsules (blue, opaque) containing 200 mg acyclovir and printed with "Wellcome ZOVIRAX 200" - Bottles of 100 (NDC-0081-0991-55) and unit dose pack of 100 (NDC-0081-0991-56).

Store at 15°-30°C (59°-86°F) and protect from light.

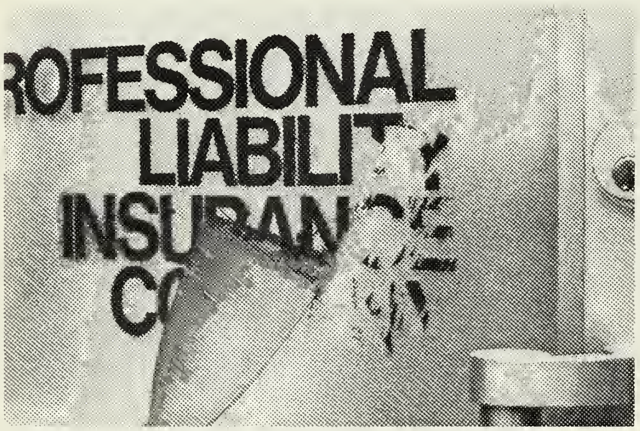
---

*In controlled studies, recurrences were totally prevented for 4 to 6 months in up to 75% of patients.

Burroughs Wellcome Co., Research Triangle Park North Carolina 27709

Copr © 1986 Burroughs Wellcome Co All rights reserved 86-ZOV-5

In ten years your malpractice carrier may be just a memory.



Unless it's Medical Protective.

The most important thing an insurance company sells is its promise to be here when you need help. Unfortunately, that's a promise that's easy to make, but hard to keep.

When you consider liability insurance, remember this. A company that's survived tough times before is more likely to come through a crisis period. And no company has weathered more of the industry's tough times than The Medical Protective Company because we pioneered professional liability coverage nearly a century ago.

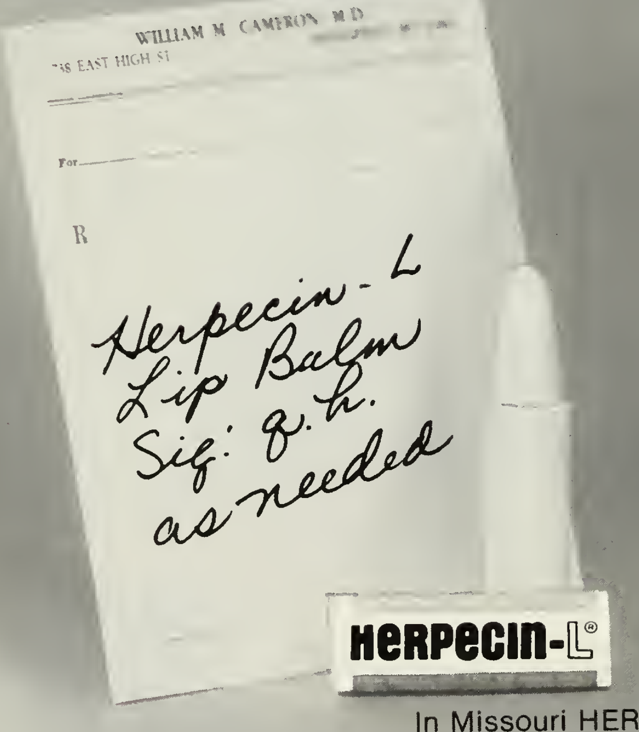
For more information contact your Medical Protective Company general agent. He'll be here when you need him.

THE
MEDICAL PROTECTIVE COMPANY
FORT WAYNE, INDIANA

Ralph E. Borgmann, Philip E. Moppert
Suite 120, 13100 Manchester Road, St. Louis, MO 63131, (314) 965-7400

Robert E. McCurdy, Thomas E. Meierant
Suite 290, 7500 West 95th Street, P.O. Box 12128, Overland Park, KS 66212, (913) 381-4222

Dx: recurrent herpes labialis



"HERPECIN-L is my **treatment of choice** for perioral herpes." GP, NY

"HERPECIN-L appears to actually **prevent** the blisters . . . used **soon enough.**" DDS, MN

"HERPECIN-L®. . . a **conservative approach** with **low risk/high benefits.**" MD, FL

"Used at **prodromal symptoms** . . . blisters **never formed** . . . remarkable." DH, MA

"(In clinical trials) . . . **response** was **dramatic.** **HERPECIN-L** . . proven **far superior.**" DDS, PA

"All patients claimed **shorter duration** . . . at **prodromal symptoms** . . . HERPECIN-L **averted** the attacks." MD, AK

OTC. *See P.D.R.* for information. For samples to make your own clinical evaluation, write: CAMPBELL LABORATORIES, INC., P.O. BOX 812-MD, FDR STATION, NEW YORK, N.Y. 10150

In Missouri HERPECIN-L is available at all *Medicare-Glaser, Osco and Walgreens* and other select pharmacies.

Medical School News

Washington University

■ **Joseph J. Volpe, M.D.,** director of the Division of Pediatric Neurology at Children's Hospital and Washington University School of Medicine, has received a $482,000 grant from the National Institute of Child Health and Human Development for continued studies of the biomedical mechanisms of brain cell development.

The five-year grant will extend the project to its 18th year.

A long-term goal of the study is determining whether there could be means of stimulating brain cell growth in patients who have had developmental deficiencies or injuries, Volpe said. The research explores the roles that lipids and glycoproteins play in cell development and differentiation.

A new aspect of the study will be the isolation of the three types of brains cells — neurons, astrocytes and oligodendroglia. Rat brain cells will be cultured into pure samples of single cell types to better reveal how lipids and glycoproteins function in the development of each.

"If we can define factors that regulate brain development, maybe we'll be able to use those factors to stimulate development under circumstances in-which brain cells are not developing," Volpe said. "It may be possible to intervene in patients who are born with developmental deficits of the brain or who sustain brain injuries."

Volpe is the A. Ernest and Jane G. Stein Professor of Developmental Neurology and professor of pediatrics, neurology and biological chemistry at the Washington University School of Medicine. He is a graduate of Harvard Medicine School.

St. Louis University

■ **Andrew J. Lechner, Ph.D.,** associate professor of physiology at St. Louis University School of Medicine, has received two grants from the National Institutes of Health totaling nearly $350,000. Both grants will fund his continuing studies of early lung development.

The National Heart, Lung and Blood Institute awarded him a three-year, $313,236 grant to study the effects of starvation on lung development.

Dr. Lechner received a second grant of $20,993 from the National Institute of Alcohol Abuse and Alcoholism for a pilot study to determine the effects of alcohol on the developing lungs of unborn children.

■ Researchers at St. Louis University Medical Center are currently testing an investigational drug for its effect on blindness and vision loss in diabetics. The study is being conducted at the Bethesda Eye Institute. The principal investigator is **Jay Fleischman, M.D.,** associate professor of ophthalmology at St. Louis University School of Medicine.

■ **Mark Knuepfer, Ph.D.,** assistant professor of pharmacology at St. Louis University School of Medicine, has received a four-year, $250,000 grant from the National Heart, Lung and Blood Institute. He will use the money to continue his research on the role of renal nerves in causing high blood pressure.

Knuepfer will investigate how nerve information from the kidney is processed in the spinal cord and brain and whether the information regulates blood pressure.

■ **Maurice Green, Ph.D.,** director of the Institute of Molecular Virology at St. Louis University School of Medicine, spoke at two international conferences recently. On July 30, he addressed the Imperial Cancer Research Fund Tumour Virus Meeting in Cambridge, England, where he spoke on the "Functional Domains of Adenovirus E1A Proteins." In September he participated in a lecture course on Oncogenes for the University of Italy held in Caeserta. He spoke on "Adenovirus Encoded Oncogenes."

■ **Jill Ohar, M.D.,** assistant professor of medicine at St. Louis University School of Medicine, has been awarded a five-year, $281,635 grant from the National Heart, Lung and Blood Institute. She will use the grant to continue her search on the cause of pulmonary hypertension, or high blood pressure, in the blood vessels of the lungs.

Dr. Ohar has developed a model in which she uses rabbits to investigate the cellular and biochemical mechanisms that trigger pulmonary hypertension. She hopes the research will aid the early diagnosis and treatment of pulmonary hypertension in humans. Currently, no effective treatment for the disease exists.

■ **J. David Malone, M.D., F.A.C.P.,** associate professor of medicine and pharmacology at St. Louis University School of Medicine, has received a $53,000 grant from the National Osteoporosis Foundation.

Dr. Malone is investigating the mechanisms of interaction between bone cells and the hormones responsible for controlling bone degradation and growth. Dr. Malone's research project will examine the complex interplay between bone cells, the extracellular bone matrix and bone-directed hormones. This research could eventually lead to a better understanding of bone diseases such as osteoporosis.

■ **Nicola Partridge, Ph.D.,** assistant research professor of pediatrics and orthopedic surgery at St. Louis University School of Medicine, has received a three-year, $145,100 grant from the NASA Space Biology Program. She will use the grant to research bone turnover. The research will provide knowledge for NASA's space program and information for therapy for diseases such as osteoporosis.

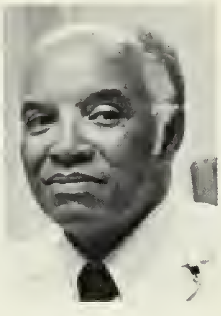
Evidence has shown that one of the effects of space travel is loss of bone because of a disruption in the balance between bone formation and bone breakdown. Partridge will investigate the regulation of several proteins, which are important in the net formation of bone. She will use techniques that involve molecular biology and biochemistry.

The University of Missouri-Columbia

■ **David B. Bylund, Ph.D.,** professor of pharmacology, gave two presentations titled "Regulation and classification of adrenergic receptors" and "Receptor binding technique" at an international Neuroreceptor Plasticity and Brain Function meeting in New Delhi, India earlier this year.

■ **Leonard R. Forte, Ph.D.,** professor of pharmacology, presented a paper entitled "Vitamin D receptors in opossum kidney cells" at the 10th International Congress of Pharmacology meeting in Sydney, Australia this summer. Dr. Forte has also been awarded a three-year $207,800 research grant from the Veterans Administration Research Service for his research of "Kidney phosphate transport: Regulation by parathyroid hormone and vitamin D."

■ **Adrianna Gini, M.D.,** nuclear medicine resident, received first place at the annual meeting of the Society of Nuclear Medicine in Canada this summer for her exhibit on "Cerebral Perfusion Studies Using Tc-99m-d, 1-HM-PAO In Unilateral Spatial Neglect: Some Evidence For A Thalamic Role." **Kim Royston,** nuclear medicine educational coordinator, received third place for her scientific exhibit on "Spect Imaging of the Brain with Tc-99m-d, 1-HM-PAO."



■ **Richard Holmes, M.D.,** professor and director of nuclear medicine, recently chaired a teaching session and presented a paper at the annual meeting of the Society of Nuclear Medicine in Canada. Dr. Holmes just stepped down as Vice President of this professional organization. He has also just received the Distinguished Guest Lecturer Award from the Southwestern Chapter of the Society of Nuclear Medicine for his presentation on "Aerosols in the Diagnosis of Pulmonary Embolism."

■ **Ramesh Khanna, M.D.,** associate professor of medicine in the division of nephrology, gave several invited presentations on peritoneal dialysis at the Fourth Congress of the International Society for Peritoneal Dialysis in Venice, Italy this summer.

■ **Hyun Dju Kim, Ph.D.,** professor and chairman of pharmacology, gave a series of seminars on "Regulation of ion transport in HT29 human colon adenocarcinoma cells by second messengers" in Korea this summer, including seminars at Yonsei University, Seoul National University, Korea Advanced Institute of Science and Technology and the Chong Kun Dang Corporation, all in Seoul, and Chonnam University in Kwkang-Ju.

■ **Gary P. Kraus, J.D.,** associate professor of health services management, has been presenting a series of seminars throughout the country this summer and fall entitled "Risk Management Through Quality Assurance." The seminars, requested by the Joint Commission on Accreditation of Hospitals, have focused on integrating risk management with quality assurance, generic screening systems and information systems to support risk management/quality assurance.

■ **Karl D. Nolph, M.D.,** professor and chairman of nephrology, has been elected Vice-President of the International Society of Peritoneal Dialysis and Secretary-Treasurer of the American Society for Artificial Internal Organs, Inc. Dr. Nolph led a panel discussion on the prevention and treatment of catheter problems during peritoneal dialysis at the International Congress on the Peritoneum and Peritoneal Access in Sweden this summer where he was an invited lecturer. This summer he also gave invited presentations on peritoneal dialysis at the Fourth Congress of the International Society for Peritoneal Dialysis in Venice, Italy, at the Swiss CAPD meeting in Switzerland and at the Academic Medical Centre in the Netherlands. Dr. Nolph is internationally recognized for his development of Continuous Ambulatory Peritoneal Dialysis (CAPD) in the late 1970's and his continuing work to improve various aspects of kidney dialysis. He currently directs the National Institutes of Health CAPD Registry designed to track the progress of CAPD patients in the U.S.

■ **Richard Oliver, Ph.D.** associate professor and director of the School of Health Related Professions, recently announced plans for Mid-Missouri's first licensed adult day care center to be opened later this year. **Lois Long,** assistant professor of health related professions and future director of the center, says the new center, to be named Eldercare, will be located on the University campus. She says it will provide health and social services in a protective setting for frail or impaired adults who cannot be left alone, yet can and want to live in their own homes.

■ **Robert M. Orr, M.D.,** anesthesiologist and instructor of anesthesiology, has received one of the highly competitive 1987 Robert D. Dripps Memorial Awards sponsored by Janssen Pharmaceuticals. Only 37 of these awards were given out nationwide to recognize outstanding graduate residents in anesthesia. Dr. Orr completed his residency at the University of Missouri-Columbia this summer.

■ **P. Kevin Rudeen, Ph.D.,** associate professor of anatomy, has been awarded a one-year $73,081 continuation grant from the National Institute of Alcohol Abuse and Alcoholism for research on "Cellular correlates of perinatal neuroendocrinopathies." Dr. Rudeen is investigating the effect a woman's alcohol drinking during pregnancy may have on the developing child's ability to have children. His research indicates that regular alcohol use during pregnancy depresses a neurotransmitter necessary for regulating the reproductive cycle.

■ **Zbylut Twardowski, M.D.,** professor of medicine in the nephrology division, is now treating the world's first patient on a new type of kidney dialysis at home. Some kidney disease patients can look forward to an improved lifestyle with less interruption for treatment because of tidal peritoneal dialysis (TPD) developed by Dr. Twardowski. TPD offers many the opportunity to perform dialysis during the night while sleeping and to go about normal daytime activities without needing treatment because one night of the new method can perform the cleansing work of 24 hours of CAPD. TPD speeds up the process by using a special machine to quickly and constantly cycle dialysis solution in and out of the body. This summer, Dr. Twardowski led panel discussions and gave presentations at several international meetings, including the International Congress of the Peritoneum and Peritoneal Access in Sweden, the Fourth Congress of the International Society for Peritoneal Dialysis in Italy and the Conference of the Pozan Chapter of the Polish Society of Nephrology. He also served as a visiting professor this summer in Warsaw, Poland.

University of Missouri-Kansas City

■ Several guest speakers of note have visited UMKC School of Medicine recently. Among them are **Francisco Fer-**

nandez, M.D., of St. Luke's Episcopal Hospital, Houston, Texas, who spoke on "Psychiatric Presentations and Complications of HIV-Spectrum Disorders." **John Stoeckle, M.D.**, of Harvard Medical School, made the first **William H. Goodson Jr., M.D.**, Visiting Professor presentation on "The Medical Interview," and the Alpha Omega Alpha speaker was **Robert Hudson, M.D.**, of Kansas University Medical Center, who spoke on "Immortal Quackery."

■ Kansas City's newest Magnetic Resonance Imaging Center (MRI) was scheduled for dedication on Nov. 7. The facility constructed on Hospital Hill, was a joint venture of Truman Medical Center and Children's Mercy Hospital. It will provide the latest in diagnostic imaging to area physicians and hospitals.

■ **Mr. Bill Chisholm,** supervisor of Medical Photography, is the 1987 recipient of UMKC School of Medicine's Outstanding Administrative Staff award. Criteria for selection include leadership, creativity, organization and management skills, professional development and dependability.

■ **William S. Sly, M.D.**, chairman of the Edward A. Doisy Department of Biochemistry at St. Louis University School of Medicine, has been awarded two grants totaling more than $200,000 from the National Institutes of Health and the National Science Foundation. The grants, along with support from the Doisy Trust Fund, will be used to establish a microsequencing facility in the biochemistry department. **Jung Huang, Ph.D.**, associate professor of biochemistry, will head the facility.

The microsequencing facility will complement the DNA synthesis facility, which was established in the department of biochemistry two years ago with the support of the Doisy Trust Fund.

■ **Raymond G. Slavin, M.D.**, professor of internal medicine and director of the Allergy and Immunology Division at St. Louis University School of Medicine, has received a five-year, $588,026 continuation grant.

The funding from the National Heart, Lung and Blood Institute will be used to study allergic bronchopulmonary aspergillosis (ABA), a hypersensitivity condition of the lung due to a commonly encountered mold. This condition results in permanent lung damage in patients with bronchial asthma and cystic fibrosis.

■ **Duane P. Grandgenett, Ph.D.**, director of the Cell and Molecular Biology Graduate Training Program at St. Louis University School of Medicine, has been awarded a five-year, $625,000 grant from the National Cancer Institute. He will use the grant to continue his research on the reproductive ability of retroviruses in chickens. Similar human retroviruses cause at least one form of lymphoma cancer.

Dr. Grandgenett is studying the structure of viral proteins. He hopes his research will lead toward development of a more effective drug than AZT, which is used to treat humans infected with the AIDS retrovirus. AIDS, human cancer and avian retroviruses have similar reproductive systems.

■ Effective Sept. 1, **James Mongan, M.D.**, executive director of Truman Medical Center, was named dean of the University of Missouri-Kansas City School of Medicine. Dr. Mongan will retain his TMC post, which he's held since 1981. Dean Mongan says his new responsibilities fit in well with what he's been doing. "I am both pleased and proud to accept this appointment. The UMKC School of Medicine has a superb faculty committed to training excellent physicians needed for the state of Missouri. One of my major objectives will be to advance the academic health science goals of patient care, teaching and research on Hospital Hill. Another major goal as dean will be to seek additional financial resources which will help both the school and the hospital."

Administrative support for Dean Mongan is being provided by **Stephen Hamburger, M.D.**, who was named associate dean for Academic Affairs, and **Mr. Russell Jones,** who was named director of Administration. Dr. Hamburger also holds the posts of senior docent, distinguished professor and chairman of TMC's Department of Internal Medicine. Mr. Jones serves as associate executive director of TMC and director of TMC's Charitable Foundation.

■ A number of faculty members from the University of Missouri-Kansas City School of Medicine were honored at UMKC's Sept. 21 Faculty/Staff Convocation. Among them were **Professor W. Ray Snider, M.D.**, who was selected as a recipient of the prestigious Elmer Pierson Teaching Award, and **Louise Arnold, Ph.D.**, director of the Office of Medical Education and Research, for being selected to attend the Bryn Mawr Summer Institute. Professor **Lee Langley, Ph.D.**, was honored for achieving emeritus faculty status, and **Paul G. Cuddy, Pharm.D.**, **Donna K. Daily, M.D.**, **Vidya Sharma, M.D.**, **Bradley A. Warady, M.D.**, and **Gerald M. Woods, M.D.**, all were recognized for their promotions to associate professor. In addition, both professors **Thomas A. Nicholas, M.D.**, and **Richardson K. Noback, M.D.**, were recognized for significant research grants for the Health Resources and Services Administration.

■ While newly appointed **Dean James J. Mongan, M.D.**, is still being welcomed himself, he, in turn began welcoming others, on Oct. 18, at UMKC School of Medicine's annual Year-1 Convocation. Dr. Mongan was keynote speaker for the event, which is geared for first-year students and their parents.

■ **Lee Langley, Ph.D.**, professor of Physiology and Medicine, and former associate dean of UMKC School of Medicine, was honored at a recent retirement reception at the medical school. Dr. Langley, who joined the school in 1973, thanked the students for "being young, for being beautiful, for being argumentative, for being brilliant, and above all, for being loving."

WHAT IS NF?

Neurofibromatosis (von Recklinghausen's Disease) is a disorder of the nervous system in which tumors can form on the nerves anywhere in the body at any time throughout the person's life.

Neurofibromatosis . . .

- is genetic
- can affect every part of the body—the bones, skin, brain, vision, hearing
- can cause disfigurement
- strikes 1 in 3,000 births of both sexes in all races
- has no known cure or effective treatment other than surgery on the tumors, which may grow back

NF

FOR MORE INFORMATION CONTACT:

THE NATIONAL
NEUROFIBROMATOSIS
FOUNDATION, INC.
Missouri Chapter, Inc.
1132 Timberline Drive
Fenton, MO 63026
(314) 343-1240

A tax-exempt voluntary health organization

Taking Giant Steps.

The smallest step can be a milestone . . . the simplest task, a major accomplishment. For individuals suffering from a physical disability, the day-to-day tasks we all take for granted can be major obstacles to independence and mobility.

At **Dallas Rehabilitation Institute (DRI)**, our team of physicians, therapists and nurses can plan an individualized treatment program to help your patient regain as much function and independence as possible. With the most modern facilities and equipment, and therapists who are rehabilitation specialists, we offer a unique approach to rehabilitation.

Our comprehensive rehabilitation programs include:

- **spinal cord injury**
- **head injury**
- **stroke**
- **arthritis**
- **amputee**
- **spinal pain**

Call us to arrange a private tour of our facilities or to receive more information on the disease category rehabilitation programs offered at DRI.

DRI

Dallas Rehabilitation
Institute
A subsidiary of Rehab Hospital Services
Corporation
9713 Harry Hines Blvd.
Dallas, TX 75220-5441
(214) 358-6000

HOW IMPROVED CPT CODING CAN INCREASE YOUR REVENUE

According to the AMA, errors in CPT Coding and inadequate reporting of CPT codes cost physicians **thousands** of dollars in lost revenues every year. Our client experience certainly supports that statement.

We are now able to offer you professional assistance, certified by the American Medical Records Association, to analyze your CPT Coding procedures, make recommendations that can improve your collections, and train your staff on how to help you collect your fair fees.

If you feel your practice would benefit by a CPT Coding Evaluation, please call **(913)268-0001** and ask for Dr. Jan Woerth.

Medical Management Resources, Inc.
11409 W. 72nd Terrace
Shawnee, Kansas 66203

Physician's Recognition Awards

Thirty-three MSMA members qualified for the MSMA-AMA Physician's Recognition Award during August 1987.

The award, presented by the Missouri State Medical Association and the American Medical Association, is given to those physicians who voluntarily complete 150 credit hours of continuing medical education within a three-year period. Sixty of the credit hours must be earned in Category I programs.

Andrew

Warren C. Baker, *Savannah*

Boone

Kip A. Burkman, *Columbia*
George W. N. Eggers, *Columbia*
Michael C. Perry, *Columbia*
George P. Wilson, *Columbia*

Butler-Wayne-Ripley-Carter

Don L. Andrus, *Poplar Bluff*

Greene

Clifford J. Ameduri, *Springfield*
Warren T. Wilson, *Springfield*

Lafayette-Ray

Billy G. Crayton, *Waverly*

Metro Med-Greater Kansas City

Federico Adler, *Kansas City*
Donald R. Davis, *Kansas City*
Walter G. Dukstein, *Kansas City*
Harry D. Haas, *Kansas City*
David J. Harris, *Kansas City*
Henry A. Lee, *Kansas City*
Gary Leifer, *Kansas City*
Charles P. Pattison, *Kansas City*
Dean D. Richards, *Kansas City*
Donald C. Sanders, *Kansas City*
Katherine A. W. Smith, *Kansas City*
Steven D. Waldman, *Kansas City*
Gary S. Wasserman, *Kansas City*
Robert D. Wilber, *Kansas City*
Charles B. Wilkinson, *Kansas City*

SEMO

Grinny H. C. Ho, *Sikeston*

St. Louis Metropolitan

Archibald M. C. Ahern, *St. Louis*
Richard J. Dames, *St. Louis*
Stephen L. Hantman, *St. Louis*
Samuel Krain, *St. Louis*
Robert Oertli, *St. Louis*
Mauro A. Paez, *St. Louis*
Timothy T. Turner, *Chesterfield*
Donald A. Withrow, *St. Louis*

In Memoriam

- **Anthony Catanzaro, Jr., M.D.,** died July 20, 1987 at the age of 31. Dr. Catanzaro, an internal medicine specialist, practiced medicine in Kirkwood, MO. He graduated from St. George's University Medical School in 1985. Dr. Catanzaro was a member of the St. Louis Metropolitan Medical Society.

- **Rene J. DuMontier, M.D.,** died September 13, 1987 at the age of 68. Dr. DuMontier, a family practice physician, practiced medicine in O'Fallon for 32 years before his retirement in March, 1985. He joined the Army in 1941 and was stationed in Honolulu during the attack on Pearl Harbor. He was awarded the Bronze Star for serving in five campaigns in Europe as a unit commander. He graduated from the University of Hawaii in 1941 and obtained his medical degree from St. Louis University School of Medicine in 1953. Dr. DuMontier was a member of the St. Charles-Lincoln Counties Medical Society.

- **Lloyd M. Harlow, Jr., M.D.,** died September 2, 1987 at the age of 56. Dr. Harlow, a general surgeon, had practiced medicine in Kansas City since 1964. He graduated from Harvard University in 1953 and obtained his medical degree from the Howard University School of Medicine in 1958. Dr. Harlow was a member of the Metropolitan Medical Society of Greater Kansas City.

- **Roy A. Walther, Jr., M.D.,** died September 18, 1987 at the age of 67. Dr. Walther, an obstetrician/gynecologist, was chairman of obstetrics and gynecology at Missouri Baptist Hospital in St. Louis for more than 35 years. Dr. Walther obtained his medical degree from Washington University Medical School in 1944. He did graduate work in Vienna, Austria. Dr. Walther was a member of the St. Louis Metropolitan Medical Society.

- **Benjamin G. Strehlman, M.D.,** died September 15, 1987 at the age of 84. Dr. Strehlman, a family practice physician, practiced medicine in Union for 35 years before his retirement in 1977 because of ill health. He graduated from Central Methodist College and obtained his medical degree from Washington University School of Medicine in 1940. Dr. Strehlman was a member of the Franklin-Gasconade-Warren Counties Medical Society.

Join a medical team that Guards your community and state.

As a physician in the Army National Guard, you can broaden your medical experience and life experience. You'll start as an officer, enjoying all the privileges and prestige rank can bring. And you can attend professionally approved courses at no cost. Best of all, you'll be helping people in your state and local community. People who really need your special skills. For more information, contact your Army Guard recruiter.

Captain
JOE SEILING
314-443-1737

Staff Sergeant
DAN KIRTON
816-922-3226

Toll Free In Missouri
1-800-392-2173

The Guard is America at its best.

MISSOURI
ARMY NATIONAL GUARD

CARAFATE®
(sucralfate)

BRIEF SUMMARY

CONTRAINDICATIONS

There are no known contraindications to the use of sucralfate.

PRECAUTIONS

Duodenal ulcer is a chronic, recurrent disease. While short-term treatment with sucralfate can result in complete healing of the ulcer, a successful course of treatment with sucralfate should not be expected to alter the post-healing frequency or severity of duodenal ulceration.

Drug Interactions: Animal studies have shown that the simultaneous administration of CARAFATE with tetracycline, phenytoin, or cimetidine will result in a statistically significant reduction in the bioavailability of these agents. This interaction appears to be nonsystemic in origin, presumably resulting from these agents being bound by CARAFATE in the gastrointestinal tract. The bioavailability of these agents may be restored simply by separating the administration of these agents from that of CARAFATE by two hours. The clinical significance of these animal studies is yet to be defined.

Carcinogenesis, Mutagenesis, Impairment of Fertility: No evidence of drug-related tumorigenicity was found in chronic oral toxicity studies of 24 months' duration conducted in mice and rats at doses up to 1 gm/kg (12 times the human dose). A reproduction study in rats at doses up to 38 times the human dose did not reveal any indication of fertility impairment. Mutagenicity studies have not been conducted.

Pregnancy: Pregnancy Category B. Teratogenicity studies have been performed in mice, rats, and rabbits at doses up to 50 times the human dose and have revealed no evidence of harm to the fetus due to sucralfate. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when sucralfate is administered to a nursing woman.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS

Adverse reactions to sucralfate in clinical trials were minor and only rarely led to discontinuation of the drug. In studies involving over 2,500 patients, adverse effects were reported in 121 (4.7%). Constipation was the most frequent complaint (2.2%). Other adverse effects, reported in no more than one of every 350 patients, were diarrhea, nausea, gastric discomfort, indigestion, dry mouth, rash, pruritus, back pain, dizziness, sleepiness, and vertigo.

DOSAGE AND ADMINISTRATION

The recommended adult oral dosage for duodenal ulcer is 1 gm four times a day on an empty stomach.

Antacids may be prescribed as needed for relief of pain but should not be taken within one-half hour before or after sucralfate.

While healing with sucralfate may occur during the first week or two, treatment should be continued for 4 to 8 weeks unless healing has been demonstrated by x-ray or endoscopic examination.

HOW SUPPLIED

CARAFATE (sucralfate) 1-gm pink tablets are supplied in bottles of 100 and in Unit Dose Identification Paks of 100. The tablets are embossed with MARION/1712.

Issued 3/84

References:

1. Grossman MI: *Scand J Gastroenterol* 58 (suppl 15):7-16, 1980.
2. Marks IN, in Hellemans J, Vantrappen G (eds): *Gastrointestinal Tract Disorders in the Elderly.* Edinburgh, Churchill Livingstone, 70-81, 1984.
3. Krentz K, Jablonowski H, in Hellemans J, Vantrappen G (eds): *Gastrointestinal Tract Disorders in the Elderly.* Edinburgh, Churchill Livingstone, 62-69, 1984.

Another patient benefit product from
PHARMACEUTICAL DIVISION
MARION
LABORATORIES, INC.
KANSAS CITY MO 64137

1595H7

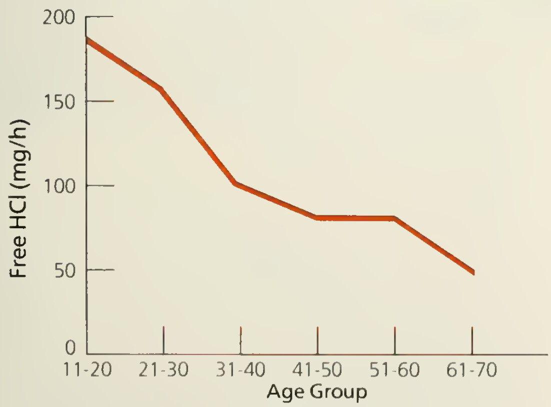
Specialized ulcer therapy

When advancing age signals reduced acid secretion

REDUCE
SPEED
AHEAD

If your duodenal ulcer patient is over 55, decreased mucosal resistance is more likely to cause an ulcer than hypersecretion of acid-pepsin.[1] A tendency toward lower acid secretion with advancing age has been shown.[2,3]

Declining gastric secretion and age[3]



CARAFATE® (sucralfate/Marion) makes sense as initial ulcer therapy for the elderly. Carafate provides ulcer healing rates comparable to H_2 antagonists without the risk of systemic side effects or drug interactions—an important benefit for older patients.

The unique, nonsystemic action of Carafate enhances the body's own ulcer healing ability, strengthening the mucosal structure as it protects damaged tissue from further injury.

When advancing age signals reduced acid secretion, choose the specialized ulcer therapy of safe, nonsystemic Carafate.

Nothing works like

CARAFATE®
sucralfate/Marion

Please see adjoining page for references and brief summary of prescribing information.

1595H7

There’s never been a better time for her...

and PREMARIN®

Proven benefits beyond relief of vasomotor symptoms

No other estrogen proven effective for osteoporosis

Only conjugated estrogens tablets have established efficacy in both osteoporosis[1] and vasomotor symptoms* at 0.625 mg/day. No other estrogen, oral or transdermal, has established clinical evidence or minimum effective dose in both indications.

No estrogen proven safer

PREMARIN is the most extensively tested estrogen, with an unsurpassed record of long-term safety.
And clinical evidence shows a significantly reduced risk of endometrial hyperplasia when cycled with a progestin.[2]

PREMARIN®
(conjugated estrogens tablets)

Most trusted for more reasons

*PREMARIN is indicated for moderate-to-severe vasomotor symptoms.

Please see following page for brief summary
of prescribing information.

For moderate-to-severe vasomotor symptoms and for osteoporosis

PREMARIN®
(conjugated estrogens tablets)

PREMARIN 0.3
PREMARIN 0.625
PREMARIN 0.9
PREMARIN 1.25
PREMARIN 2.5

0.3 mg 0.625 mg 0.9 mg 1.25 mg 2.5 mg

The appearance of these tablets is a trademark of Ayerst Laboratories.

For atrophic vaginitis

PREMARIN®
(conjugated estrogens)

Vaginal
Cream

0.625 mg/g

Premarin
(conjugated estrogens)
VAGINAL CREAM
in a nonliquefying base

BRIEF SUMMARY *(FOR FULL PRESCRIBING INFORMATION AND PATIENT INFORMATION, SEE PACKAGE CIRCULARS.)*

PREMARIN® Brand of conjugated estrogens tablets, USP
PREMARIN® Brand of conjugated estrogens Vaginal Cream, in a nonliquefying base

> 1 ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA
> Three independent, case-controlled studies have reported an increased risk of endometrial cancer in postmenopausal women exposed to exogenous estrogens for more than one year This risk was independent of the other known risk factors for endometrial cancer These studies are further supported by the finding that incidence rates of endometrial cancer have increased sharply since 1969 in eight different areas of the United States with population-based cancer reporting systems, an increase which may be related to the rapidly expanding use of estrogens during the last decade The three case-controlled studies reported that the risk of endometrial cancer in estrogen users was about 4 5 to 13 9 times greater than in nonusers The risk appears to depend on both duration of treatment and on estrogen dose In view of these findings, when estrogens are used for the treatment of menopausal symptoms, the lowest dose that will control symptoms should be utilized and medication should be discontinued as soon as possible When prolonged treatment is medically indicated, the patient should be reassessed on at least a semi-annual basis to determine the need for continued therapy Although the evidence must be considered preliminary, one study suggests that cyclic administration of low doses of estrogen may carry less risk than continuous administration, it therefore appears prudent to utilize such a regimen Close clinical surveillance of all women taking estrogens is important In all cases of undiagnosed persistent or recurring abnormal vaginal bleeding, adequate diagnostic measures should be undertaken to rule out malignancy There is no evidence at present that "natural" estrogens are more or less hazardous than "synthetic" estrogens at equi-estrogenic doses
> 2 ESTROGENS SHOULD NOT BE USED DURING PREGNANCY
> The use of female sex hormones, both estrogens and progestogens, during early pregnancy may seriously damage the offspring It has been shown that females exposed in utero to diethylstilbestrol, a nonsteroidal estrogen, have an increased risk of developing, in later life, a form of vaginal or cervical cancer that is ordinarily extremely rare This risk has been estimated as not greater than 4 per 1,000 exposures Furthermore, a high percentage of such exposed women (from 30% to 90%) have been found to have vaginal adenosis, epithelial changes of the vagina and cervix Although these changes are histologically benign, it is not known whether they are precursors of malignancy Although similar data are not available with the use of other estrogens, it cannot be presumed they would not induce similar changes Several reports suggest an association between intrauterine exposure to female sex hormones and congenital anomalies, including congenital heart defects and limb-reduction defects One case-controlled study estimated a 4 7-fold increased risk of limb-reduction defects in infants exposed in utero to sex hormones (oral contraceptives, hormone withdrawal tests for pregnancy, or attempted treatment for threatened abortion) Some of these exposures were very short and involved only a few days of treatment The data suggest that the risk of limb-reduction defects in exposed fetuses is somewhat less than 1 per 1,000 In the past, female sex hormones have been used during pregnancy in an attempt to treat threatened or habitual abortion. There is considerable evidence that estrogens are ineffective for these indications, and there is no evidence from well-controlled studies that progestogens are effective for these uses If PREMARIN is used during pregnancy, or if the patient becomes pregnant while taking this drug, she should be apprised of the potential risks to the fetus, and the advisability of pregnancy continuation

DESCRIPTION: PREMARIN (conjugated estrogens, USP) contains a mixture of estrogens, obtained exclusively from natural sources, blended to represent the average composition of material derived from pregnant mares' urine It contains estrone, equilin, and 17α-dihydroequilin, together with smaller amounts of 17α-estradiol, equilenin, and 17α-dihydroequilenin as salts of their sulfate esters Tablets are available in 0 3 mg, 0 625 mg, 0 9 mg, 1 25 mg, and 2 5 mg strengths of conjugated estrogens Cream is available as 0 625 mg conjugated estrogens per gram

INDICATIONS AND USAGE: PREMARIN (conjugated estrogens tablets, USP) Moderate-to-severe *vasomotor* symptoms associated with the menopause (There is no evidence that estrogens are effective for nervous symptoms or depression without associated vasomotor symptoms and they should not be used to treat such conditions) Osteoporosis (abnormally low bone mass) Atrophic vaginitis Kraurosis vulvae Female castration

PREMARIN (conjugated estrogens) Vaginal Cream is indicated in the treatment of atrophic vaginitis and kraurosis vulvae

PREMARIN HAS NOT BEEN SHOWN TO BE EFFECTIVE FOR ANY PURPOSE DURING PREGNANCY AND ITS USE MAY CAUSE SEVERE HARM TO THE FETUS (SEE BOXED WARNING)

Concomitant Progestin Use: The lowest effective dose appropriate for the specific indication should be utilized Studies of the addition of a progestin for 7 or more days of a cycle of estrogen administration have reported a lowered incidence of endometrial hyperplasia Morphological and biochemical studies of the endometrium suggest that 10 to 13 days of progestin are needed to provide maximal maturation of the endometrium and to eliminate any hyperplastic changes Whether this will provide protection from endometrial carcinoma has not been clearly established There are possible additional risks which may be associated with the inclusion of progestin in estrogen replacement regimens (See PRECAUTIONS) The choice of progestin and dosage may be important, product labeling should be reviewed to minimize possible adverse effects

CONTRAINDICATIONS: Estrogens should not be used in women (or men) with any of the following conditions 1 Known or suspected cancer of the breast except in appropriately selected patients being treated for metastatic disease 2 Known or suspected estrogen-dependent neoplasia 3 Known or suspected pregnancy (see Boxed Warning) 4 Undiagnosed abnormal genital bleeding 5 Active thrombophlebitis or thromboembolic disorders 6 A past history of thrombophlebitis, thrombosis, or thromboembolic disorders associated with previous estrogen use (except when used in treatment of breast or prostatic malignancy)

WARNINGS: Estrogens have been reported to increase the risk of endometrial carcinoma (see Boxed Warning) However, a recent large, case-controlled study indicated no increase in risk of breast cancer in postmenopausal women A recent study has reported a 2- to 3-fold increase in the risk of surgically confirmed gallbladder disease in women receiving postmenopausal estrogens

Adverse effects of oral contraceptives may be expected at the larger doses of estrogen used to treat prostatic or breast cancer or postpartum breast engorgement, it has been shown that there is an increased risk of thrombosis in men receiving estrogens for prostatic cancer and women for postpartum breast engorgement Users of oral contraceptives have an increased risk of diseases, such as thrombophlebitis, pulmonary embolism, stroke, and myocardial infarction Cases of retinal thrombosis, mesenteric thrombosis, and optic neuritis have been reported in oral contraceptive users An increased risk of postsurgery thromboembolic complications has also been reported in users of oral contraceptives If feasible, estrogen should be discontinued at least 4 weeks before surgery of the type associated with an increased risk of thromboembolism, or during periods of prolonged immobilization Estrogens should not be used in persons with active thrombophlebitis, thromboembolic disorders, or in persons with a history of such disorders in association with estrogen use They should be used with caution in patients with cerebral vascular or coronary artery disease Large doses (5 mg conjugated estrogens per day), comparable to those used to treat cancer of the prostate and breast, have been shown to increase the risk of nonfatal myocardial infarction, pulmonary embolism, and thrombophlebitis When doses of this size are used, any of the thromboembolic and thrombotic adverse effects should be considered a clear risk

Benign hepatic adenomas should be considered in estrogen users having abdominal pain and tenderness, abdominal mass, or hypovolemic shock Hepatocellular carcinoma has been reported in women taking estrogen-containing oral contraceptives Increased blood pressure may occur with use of estrogens in the menopause and blood pressure should be monitored with estrogen use A worsening of glucose tolerance has been observed in patients on estrogen-containing oral contraceptives For this reason, diabetic patients should be carefully observed Estrogens may lead to severe hypercalcemia in patients with breast cancer and bone metastases

PRECAUTIONS: Physical examination and a complete medical and family history should be taken prior to the initiation of any estrogen therapy with special reference to blood pressure, breasts, abdomen, and pelvic organs, and should include a Papanicolaou smear As a general rule, estrogen should not be prescribed for longer than one year without another physical examination being performed Conditions influenced by fluid retention, such as asthma, epilepsy, migraine, and cardiac or renal dysfunction, require careful observation Certain patients may develop manifestations of excessive estrogenic stimulation, such as abnormal or excessive uterine bleeding, mastodynia, etc Prolonged administration of unopposed estrogen therapy has been reported to increase the risk of endometrial hyperplasia in some patients Oral contraceptives appear to be associated with an increased incidence of mental depression Patients with a history of depression should be carefully observed Pre-existing uterine leiomyomata may increase in size during estrogen use The pathologist should be advised of estrogen therapy when relevant specimens are submitted If jaundice develops in any patient receiving estrogen, the medication should be discontinued while the cause is investigated Estrogens should be used with care in patients with impaired liver function, renal insufficiency, metabolic bone diseases associated with hypercalcemia, or in young patients in whom bone growth is not yet complete If concomitant progestin therapy is used, potential risks may include adverse effects on carbohydrate and lipid metabolism

The following changes may be expected with larger doses of estrogen

a Increased sulfobromophthalein retention

b Increased prothrombin and factors VII, VIII, IX, and X, decreased antithrombin 3, increased norepinephrine-induced platelet aggregability

c Increased thyroid binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by PBI, T_4 by column, or T_4 by radioimmunoassay Free T_3 resin uptake is decreased, reflecting the elevated TBG, free T_4 concentration is unaltered

d Impaired glucose tolerance

e Decreased pregnanediol excretion

f. Reduced response to metyrapone test

g Reduced serum folate concentration

h Increased serum triglyceride and phospholipid concentration

As a general principle, the administration of any drug to nursing mothers should be done only when clearly necessary since many drugs are excreted in human milk

Long-term, continuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomas of the breast, cervix, vagina, and liver However, in a recent, large case-controlled study of postmenopausal women there was no increase in risk of breast cancer with use of conjugated estrogens

ADVERSE REACTIONS: The following have been reported with estrogenic therapy, including oral contraceptives, breakthrough bleeding, spotting, change in menstrual flow, dysmenorrhea, premenstrual-like syndrome, amenorrhea during and after treatment, increase in size of uterine fibromyomata, vaginal candidiasis, change in cervical erosion and in degree of cervical secretion, cystitis-like syndrome, tenderness, enlargement, secretion (of breasts), nausea, vomiting, abdominal cramps, bloating, cholestatic jaundice, chloasma or melasma which may persist when drug is discontinued, erythema multiforme, erythema nodosum, hemorrhagic eruption, loss of scalp hair, hirsutism, steepening of corneal curvature, intolerance to contact lenses, headache, migraine, dizziness, mental depression, chorea, increase or decrease in weight, reduced carbohydrate tolerance, aggravation of porphyria, edema, changes in libido

ACUTE OVERDOSAGE: May cause nausea, and withdrawal bleeding may occur in females

DOSAGE AND ADMINISTRATION:

PREMARIN® Brand of conjugated estrogens tablets, USP

1 *Given cyclically for short-term use only* For treatment of moderate-to-severe *vasomotor* symptoms, atrophic vaginitis, or kraurosis vulvae associated with the menopause (0 3 mg to 1 25 mg or more daily) The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible Administration should be cyclic (eg, three weeks on and one week off) Attempts to discontinue or taper medication should be made at three- to six-month intervals

2 *Given cyclically* Osteoporosis Female castration Osteoporosis —0 625 mg daily Administration should be cyclic (eg, three weeks on and one week off) Female castration—1 25 mg daily, cyclically Adjust upward or downward according to response of the patient For maintenance, adjust dosage to lowest level that will provide effective control

Patients with an intact uterus should be monitored for signs of endometrial cancer and appropriate measures taken to rule out malignancy in the event of persistent or recurring abnormal vaginal bleeding

PREMARIN® Brand of conjugated estrogens Vaginal Cream

Given cyclically for short-term use only For treatment of atrophic vaginitis or kraurosis vulvae

The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible

Administration should be cyclic (eg, three weeks on and one week off)

Attempts to discontinue or taper medication should be made at three- to six-month intervals

Usual dosage range 2 g to 4 g daily, intravaginally, depending on the severity of the condition

Treated patients with an intact uterus should be monitored closely for signs of endometrial cancer and appropriate diagnostic measures should be taken to rule out malignancy in the event of persistent or recurring abnormal vaginal bleeding

References:

1. Lindsay R, Hart DM, Clark DM The minimum effective dose of estrogen for prevention of postmenopausal bone loss *Obstet Gynecol* 1984,63 759-763 **2**. Studd JWW, Thom MH, Paterson MEL, et al The prevention and treatment of endometrial pathology in postmenopausal women receiving exogenous estrogens, in Pasetto N Paoletti R, Ambrus JL (eds): *The Menopause and Postmenopause* Lancaster, England, MTP Press Ltd, 1980, chap 13

© 1987 Ayerst Laboratories
All rights reserved

6437/587

Ayerst®
AYERST LABORATORIES
New York, NY 10017

Information for Contributors

Articles are accepted for publication on condition that they are contributed solely to this journal. Material appearing in Missouri Medicine is protected by copyright.

Manuscripts should be submitted to the editor, Jordan W. Burkey, M.D., P.O. Box 1028, 113 Madison, Jefferson City, Mo. 65102. The transmittal letter should designate one author as correspondent and include his address and telephone number.

In addition, in view of *The Copyright Revision Act of 1976*, effective Jan. 1, 1978, transmittal letters to the editor should contain the following language: "In consideration of the Missouri State Medical Association's taking action in reviewing and editing my submission, the author(s) undersigned hereby transfers, assigns or otherwise conveys all copyright ownership to the MSMA in the event that such work is published by the MSMA." We regret that transmittal letters not containing the foregoing language signed by all authors of the submission will necessitate delay in review of the manuscript. Please include the title of the article in the transmittal letter.

Manuscripts

Manuscripts should be typewritten, double spaced, and the original with one copy submitted. Retain another copy for proofreading. Please number the pages of your manuscript. Manuscripts are not returned. Hospital and University appointments of the author(s) should accompany the manuscript. A synopsis-abstract of no more than 75 words should accompany the manuscript.

References

References should be cited in numerical order in the text and arranged at the end of the article in the same order in which they are cited. The reference should give name of author, title of article, name of periodical, volume number, initial page number and year. Authors are responsible for reference accuracy.

Illustrations

Illustrations should be glossy prints or drawings in India ink on white paper. They should not be mounted and name of author and figure number should be penciled lightly on the back. Legends should appear on a separate sheet.

Legal difficulties may arise from unauthorized use of names, initials or photographs in which individuals can be identified. Permission should be secured from patient or legal guardian and signed duplicate or photostat submitted with such photographs or identification. The Editor and Editorial Board assume no responsibility for the opinions and claims expressed in articles contributed by authors. If citation of an institution related to the article is made, approval of the chief of service should be given in a letter accompanying the article.

Reprints

Reprint order blanks will accompany proof, which will be sent to authors prior to publication.

Editorials

Editorials should be written in clear, concise language. Length should be about two or three pages typed with double spacing.

Letters

Letters will be published at the discretion of the editor, managing editor, and Editorial Board.

Deadline

All material other than scientific should be received prior to the first of the month preceding month of publication.

Index to Advertisers

Airforce **686**

Ayerst Labs **718B-D**

Army National Guard **718**

Burroughs Wellcome **710C-D, 711**

Campbell Laboratories **712**

Creighton University **685**

Dallas Rehabilitation Institute **716**

D.O.C., Inc. **723**

E. F. Hutton **690**

Eli Lilly **710B**

Forrest T. Jones **709**

Fred S. James **720**

Goetze-Niemer **692**

Marion Labs **718, 718A, 786A-B**

Medical Defense Associates **688**

Medical Management Resources **716**

Medical Protective Company **712**

MOMEDICO **678**

Risk Control Associates **680**

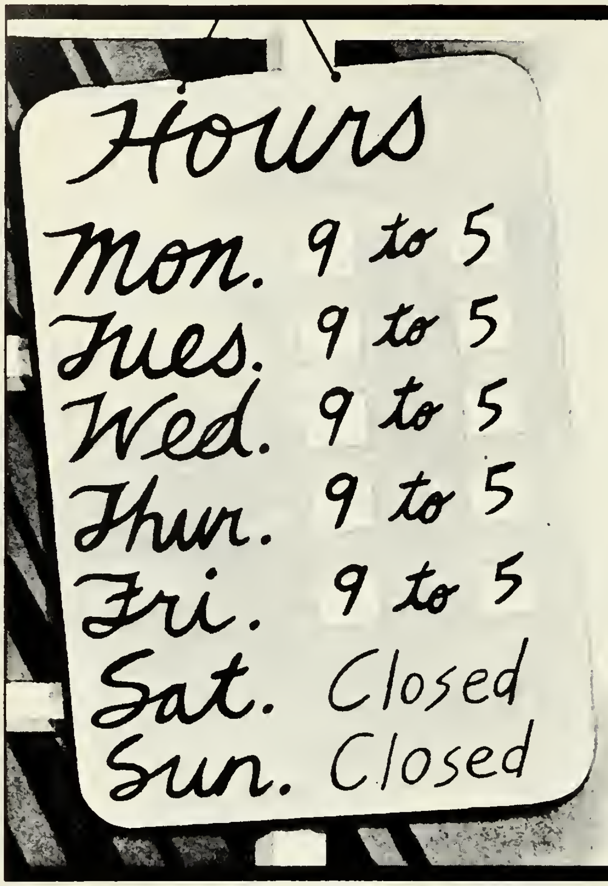
Roche Laboratories **727, 728**

The Shealy Institute **685**

United Missouri Banks **682**

The Upjohn Company **710A**

Wes Woodbury **723**



Accidents Don't Keep Regular Hours. Neither Should Your Personal Accident Insurance.

And when they do, they can be costly. That's why the MSMA sponsors an insurance plan for members . . . one that offers attractive coverage at a favorable price.

Accidents occur everywhere — on planes — on buses or other public conveyances — in cars — on the job — in the home — in sports activities.

All members under age 65 are eligible. Your spouse and children (to age 23) can be covered if you apply. Coverage is provided without regard to health history.

The plan is underwritten by Commercial Insurance Company, Newark, N.J.

A NEW, IMPROVED program is now available to you!

Coverage has been broadened and premiums reduced.

Up to $200,000 coverage available for members — Spouse and Children may also be insured.

For full particulars, the Administrators invite you to call or write today.

detach here and mail

Mail to: **James**
FRED.S.JAMES&CO.OFMISSOURI,INC.

Eastern Missouri Administrator
231 S. Bemiston
Clayton, MO 63105
(314) 863-7777

Western Missouri Administrator
2420 Pershing Road
Kansas City, MO 64108
(816) 842-6670

Please send me a brochure and application for the Missouri State Medical Association sponsored plan(s) I've checked below. I understand there is absolutely no obligation.

☐ Personal Disability Income
☐ Office Overhead Expense
☐ Hospital Indemnity Plan
☐ Accidental Death & Dismemberment Insurance

Name ________________

Address ________________

City ________ State ________ ZIP ________

Phone: ( ) ________ Best time to call: ________

New Members

- **Mark A. Adams, M.D.,** 1012 North Main St., Sikeston 63801, has become a member of the SEMO County Medical Society. Dr. Adams received his preliminary education at Drury College and obtained his medical degree at the University of Missouri-Columbia in 1981. He completed his residency at Johns Hopkins Hospital, Baltimore, MD. He specializes in orthopedic surgery/sports medicine.

- **Lynn A. Anderson, M.D.,** 1900 S. National Ave., Springfield 65807, has become a member of the Greene County Medical Society. Dr. Anderson received her preliminary education at the University of Missouri-Columbia and obtained her medical degree at Tulane University School of Medicine in 1983. She completed her residency at the Tulane School of Medicine, New Orleans, LA. She specializes in dermatology.

- **Vicky L. Boone, M.D.,** 1965 S. Freemont, Suite 1800, Springfield 65804, has become a member of the Greene County Medical Society. Dr. Boone received her preliminary education at the University of Nebraska and obtained her medical degree at the University of Nebraska Medical College in 1983. She completed her residency at Methodist Hospital, Indianapolis, IN. She specializes in obstetrics/gynecology.

- **Michael L. Burks, M.D.,** N603, One Hospital Drive, Columbia 65201, has become a member of the Boone County Medical Society. Dr. Burks received his preliminary education at Northwest Missouri State College and obtained his medical degree at the University of Missouri-Columbia in 1987. He is completing his residency at the University of Missouri Hospital and Clinics, Columbia, MO. He specializes in obstetrics/gynecology.

- **David A. Carr, M.D.,** 1012 North Main, Sikeston 63801, has become a member of the SEMO County Medical Society. Dr. Carr received his preliminary education at Missouri Valley College and obtained his medical degree at Creighton University in 1973. He completed his residency at St. Lukes Hospital, Kansas City, MO. He specializes in obstetrics/gynecology.

- **G. Glen Chitwood, M.D.,** 1502 E. Broadway, Columbia 65201, has become a member of the Boone County Medical Society. Dr. Chitwood received his preliminary education at Arkansas Polytechnical College and obtained his medical degree at the University of Arkansas College of Medicine in 1973. He completed his residency at the University of Oklahoma Health Sciences Center, Norman, OK. He specializes in diagnostic radiology.

- **Donald C. Edgren, M.D.,** 2525 Miller, Box 406, Bethany 64424, has become a member of the Grand River County Medical Society. Dr. Edgren received his preliminary education at the University of Michigan and obtained his medical degree at the St. Louis University School of Medicine in 1946. He completed his residency at Georgetown University Medical Center, Washington, D.C. He specializes in internal medicine.

- **Wolfe B. Gerecht, M.D.,** 1001 E. Primrose, P.O. Box 10747, Springfield 65807, has become a member of the Greene County Medical Society. Dr. Gerecht received his preliminary education at the University of Missouri-Kansas City in 1980. He completed his residency at the Mayo Clinic, Rochester, MN. He specializes in infectious diseases.

- **James A. Gessler, M.D.,** 3231 S. National, Springfield 65807, has become a member of the Greene County Medical Society. Dr. Gessler received his preliminary education at Creighton University and obtained his medical degree at the University of Kansas in 1974. He completed his residency at the Ophthalmology Naval Hospital, Bethesda, MD. He specializes in ophthalmology.

- **William M. Grant, M.D.,** 2400 Frederick Ave., St. Joseph 64506, has become a member of the Buchanan County Medical Society. Dr. Grant received his preliminary education at Livingstone College and obtained his medical degree at the University of North Carolina in 1974. He completed his residency at North Carolina Memorial Hospital, Chapel Hill, NC. He specializes in anesthesiology.

- **Michael S. Hanks, M.D.,** 1000 E. Primrose, Suite 320, Springfield 65807, has become a member of the Greene County Medical Society. Dr. Hanks received his preliminary education at Harding College and obtained his medical degree at the Universidad Autonoma De Guadalajara in 1980. He completed his residency at the University of Maryland, Baltimore, MD. He specializes in pediatrics.

- **Donald W. Hartsfield, D.O.,** 1118 N. Main, Suite B, Sikeston 63801, has become a member of the SEMO County Medical Society. Dr. Hartsfield received his preliminary education at Ferris State College and obtained his osteopathic degree at the University of Osteopathic Medicine & Health Sciences-Des Moines in 1986. He completed a rotating internship at Michiana Community Hospital, South Bend, IN. He specializes in family practice.

- **Nancy J. Hayes, M.D.,** 600 N. Busch, Mountain Grove 65711, has become a member of the South Central Counties Medical Society. Dr. Hayes received her preliminary education at the University of Illinois and obtained her medical degree at Baylor College of Medicine in 1983. She completed her residency at Baylor Affiliated Hospitals, Texas. She specializes in family practice.

- **John H. Helzberg, M.D.,** 6724 Troost, #710, Kansas City 64131, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Helzberg received his preliminary education at Stanford University and obtained his medical degree at the University of Rochester in 1980. He completed his residency at the University of Kansas Medical Center, Kansas City, KS. He specializes in internal medicine/gastroenterology.

- **David L. Janssen, M.D.,** 1900 S. National, #1960, Springfield 65802, has become a member of the Greene County Medical Society. Dr. Janssen received his preliminary education at the University of Texas-Austin and obtained his medical degree at the University of Texas Medical Branch at Galveston in 1982. He completed his residency at Baylor College of Medicine, Texas. He specializes in therapeutic radiology.

- **Benton B. Levie, M.D.,** 1012 N. Main, Sikeston 63801, has become a member of the SEMO County Medical Society. Dr. Levie received his preliminary education at Vanderbilt University and obtained his medical degree at the Duke University School of Medicine in 1969. He completed his residency at the University of North Carolina Memorial Hospital, Chapel Hill, NC. He specializes in pediatrics.

■ **Aly M. Mohsen, M.D.,** 1235 E. Cherokee, Springfield 65804, has become a member of the Greene County Medical Society. Dr. Mohsen received his preliminary education at Ain Shams University, Cairo, Egypt and obtained his medical degree at Ain Shams University in 1976. He completed his residency at Kansas University, Wichita, KS. He specializes in physical medicine and rehabilitation.

■ **W. Thomas Morgan, Jr., M.D.,** 1101 N. Providence, Columbia 65201, has become a member of the Boone County Medical Society. Dr. Morgan received his preliminary education at the University of Missouri-Columbia and obtained his medical degree at the University of Missouri-Columbia in 1961. He completed his residency at Kansas City General Hosptial, Kansas City, MO. He specializes in family practice.

■ **Peter A. Namnum, M.D.,** 6420 Prospect, Suite T303, Kansas City 64132, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Namnum received his preliminary education at Clark University and obtained his medical degree at the Yale University School of Medicine in 1982. He completed his residency at Barnes Hospital, St. Louis, MO. He specializes in pulmonary medicine.

■ **Kenneth R. Powell, M.D.,** 1001 E. Primrose, Springfield 65807, has become a member of the Greene County Medical Society. Dr. Powell received his preliminary education at Texas A&M University and obtained his medical degree at Texas A&M College of Medicine in 1983. He completed his residency at the University of Arkansas, Little Rock, AR. He specializes in internal medicine.

■ **Lisa G. Powell, M.D.,** 1900 S. National, Suite 2960, Springfield 65804, has become a member of the Greene County Medical Society. Dr. Powell received her preliminary education at Texas A&M University and obtained her medical degree at Texas A&M College of Medicine in 1983. She completed her residency at University Hospital, Little Rock, AR. She specializes in obstetrics/gynecology.

■ **Kimberley A. Prater, M.D.,** 1443 North Robberson, Suite 208, Springfield 65802, has become a member of the Greene County Medical Society. Dr. Prater received her preliminary education at Pomona College and obtained her medical degree at Washington University School of Medicine in 1981. She completed her residency at Washington University, Jewish Hospital, St. Louis, MO. She specializes in radiology.

■ **Richard L. Ragsdale, D.O.,** 1118 N. Main, Sikeston 63801, has become a member of the SEMO County Medical Society. Dr. Ragsdale received his preliminary education at North Texas State University and obtained his osteopathic degree at Texas College of Osteopathic Medicine in 1982. He completed his residency at Mt. Clemens General Hospital. He specializes in otolaryngology/orofacial plastic surgery.

■ **Bonnie M. Ranney, M.D.,** 1100 W. 10th St., Suite 120, Rolla 65401, has become a member of the Mid-Missouri Medical Society. Dr. Ranney received her preliminary education at the University of Missouri-Columbia and obtained her medical degree at the University of Missouri-Columbia in 1984. She completed her residency at the University of Kansas School of Medicine, Wichita, KS. She specializes in family practice.

■ **Jon J. Sanchez, M.D.,** 3525 S. National, Suite 210, Springfield 65807, has become a member of the Greene County Medical Society. Dr. Sanchez received his preliminary education at the University of Nebraska and obtained his medical degree at the University of Nebraska Medical Center in 1982. He completed his residency at the University of Louisville, Louisville, KY. He specializes in orthopedic surgery.

■ **James E. Schaberg, M.D.,** 2633 West Clay, St. Charles 63301, has become a member of the St. Charles County Medical Society. Dr. Schaberg received his preliminary education at Vanderbilt University and obtained his medical degree at the University of Missouri-Columbia in 1979. He completed his residency at the University of Missouri, Columbia, MO. He specializes in orthopedic surgery.

■ **William T. Schnarr, M.D.,** 12 Shawnee, St. Charles 63301, has become a member of the St. Charles County Medical Society. Dr. Schnarr received his preliminary education at St. Mary's College and obtained his medical degree at the University of Missouri-Columbia in 1971. He completed his residency at the University of Texas Health Science Center, San Antonio, TX. He specializes in pulmonary medicine.

■ **Christopher L. Southwick, M.D.,** Eastgate Building, P.O. Box 975, Columbia 65205, has become a member of the Boone County Medical Society. Dr. Southwick received his preliminary education at Kansas State University and obtained his medical degree at the University of Kansas School of Medicine in 1984. He completed his residency at Western Reserve Care System, Youngstown, OH. He specializes in anesthesiology.

■ **Timothy A. Tesmer, M.D.,** 1900 S. National, Suite 2300, Springfield 65807, has become a member of the Greene County Medical Society. Dr. Tesmer received his preliminary education at Nebraska Wesleyan University and obtained his medical degree at the University of Nebraska College of Medicine in 1982. He completed his residency at the University of Louisville School of Medicine, Louisville, KY. He specializes in otolaryngology/head and neck surgery.

■ **Robert G. Wilkie, M.D.,** 3525 S. National, Springfield 65807, has become a member of the Greene County Medical Society. Dr. Wilkie received his preliminary education at the University of Calgary, Alberta, Canada and obtained his medical degree at the University of Alberta School of Medicine in 1971. He completed his residency at Royal Columbian Hospital, New Westminster, B.C. Canada. He specializes in family practice.

How do you
get started
in medical
practice?
Find out
Dec. 3-4
Call
314/636-5151
for workshop
details.

CASH FLOW HEADACHES?

TAKE TWO MINUTES AND CALL US IN THE MORNING.

At best, poor cash flow can be a real pain. At worst, it can cripple your practice. Now fortunately, there's a cure: the Medical Information Management System (MIMS).

It's IBM compatible, multi-user software designed with your needs in mind.

It can bill patients immediately, and file insurance claims electronically. This feature alone cuts payment time from months to as few as four days.

If you're suffering from cash flow headaches, take two minutes and call us toll-free. We'll send you our informative brochure and help you improve your financial health.

1-800-643-8365

MIMS
Medical Information Management Systems

D.O.C., Inc.
P.O. Box 2476
Little Rock, AR 72203

Can you top this?

* Compare these graded premium whole life rates with any term:

Age	*$100,000*	*$250,000*	*$500,000*	*$1,000,000*
30	$118	$ 195	$ 371	$ 695
35	120	201	384	725
40	149	253	480	935
45	179	322	615	1205
50	221	405	770	1535
55	314	593	1160	2295
60	506	998	1974	3915
65	837	1700	3384	6725

Non-Smoker Annual Rates Shown

- ★ Premiums are guaranteed for the first 5 policy years.
- ★ Convertible to any level premium whole life offered by company.
- ★ Premiums increase each year to age 75 then level.
- ★ Rated an ''A'' Excellent Life Company by A. M. Best Co.

For more information, return this form or contact:

Wes Woodbury & Associates
3609 NE 62nd Terrace
Kansas City, MO 64119
816-455-3400

Amount of insurance $ ____________________
Date of Birth ____________________
Smoker/Non-Smoker (circle one)
Name ____________________
Address ____________________
City/State ____________________
Zip __________ Phone __________

Continuing Medical Education

The continuing medical education accreditation program of the MSMA has full approval by the AMA's Council on Medical Education. The institutions and functions listed here qualify for Category I credit for the AMA Physician's Recognition Award. All accredited institutions in Missouri are invited to send this information for listing in MISSOURI MEDICINE. Please remember to include the name of the individual who can be contacted at your institution for additional information about your CME events.

November

5-7 **Annual Fall Clinical Conference** — Location: Alameda Plaza Hotel, Kansas City, MO. Contact: Linda F. Smutz, Executive Director, Kansas City Southwest Clinical Society, 222 West Gregory, Kansas City, MO 64114. 816/523-3383.

6 **"Stroke Today: Preventive Measures & the Role of Ultrasonography"** — Location: Omni International Hotel at Union Station. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Blvd., St. Louis, MO 63104. 314/577-8167.

6 **Pediatric Sports Medicine Seminar** — Location: Children's Hospital, St. Louis, MO. Contact: Karen Fallert, Physician Support Services, Children's Hospital, 400 S. Kingshighway, St. Louis, MO 63110. 314/454-6088.

10 **"Frontiers in Interventional Radiology"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

12-13 **"6th Annual Missouri Conference on Genetic Disorders"** — Location: Omni Hotel, St. Louis, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA 215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

12-15 **"Emergency Room Legal Environment: Medicine's Response"** — Location: Hotel Del Coronado, San Diego, CA. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Blvd., St. Louis, MO 63104. 314/577-8167.

13-15 **14th Annual Symposium: Anesthesia and the Geriatric Patient** — Location: The Marriott Pavilion Hotel, One Broadway, St. Louis, MO. Contact: Geriatric Symposium, Department of Anesthesiology, Box 8054, Washington University School of Medicine, 660 S. Euclid Avenue, St. Louis, MO 63110. 314/362-6973.

18-20 **Clinical Advances In Pediatrics: A Postgraduate Course** — Location: Children's Mercy Hospital, Kansas City, MO. Contact: Kurt Metzl, M.D., Course Director, Menorah Medical Center, 4949 Rockhill Road, Kansas City, MO 64110. 816/276-8825.

19 **"Annual Van Smith Lectureship on Hematology and Related Disorders"** — Location: Ramada Inn, Springfield, MO. Contact: James E. Thompson, Jr., Executive Director, Greene County Medical Society, 1200 E. Woodhurst D-200, Springfield, MO 65804. 417/887-1017.

19-20 **"Pediatric Advanced Cardiac & Trauma Support for Life Program"** — Location: Cardinal Glennon Children's Hospital, St. Louis, MO. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Blvd., St. Louis, MO 63104. 314/577-8167.

21 **Surviving AIDS** — Location: Grand River Inn, Chillicothe, MO. Contact: The Ed Bixby Institute, Research Medical Center, 2316 E. Meyer Blvd., Kansas City, MO. 816/276-4306 or 1-800/821-5140 ext. 4306.

December

7-8 **33rd Annual Urology Seminar** — Location: Hyatt Regency Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

8 **"MRI of the Knee — 3,000 Cases"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway, St. Louis, MO 63110. 314/362-7130.

February 1988

5-6 **"Midwinter Laser Course and Fluorescein Angiography Workshop"** — Location: Omni International Hotel at Union Station, St. Louis, MO. Contact: Jeanne B. Toma, 4949 Barnes Hospital Plaza, Suite 17413, St. Louis, MO 63110. 314/367-1181.

10-12 **"8th National Conference on CAPD"** — Location: Westin Crown Center Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

Classifieds

CLASSIFIED ADVERTISING INFORMATION

Rates: $15 per insertion for 50 words or less for members and $25 per insertion for 50 words or less for nonmembers, with an additional 25¢ per word in excess of 50.

Copy Deadline: Copy due by the first of the month prior to month of publication. Send to MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City 65102.

Word Count: Count as one word all single words, two initials of a name, each abbreviation, isolated numbers, groups of numbers, hyphenated words. Count file numbers as five words.

File Numbers — Advertisers using file numbers forbid disclosure of their identity. Written inquiries are forwarded to such advertisers. To assure prompt delivery when replying to an advertisement with a Journal file number, address letters as follows: File (insert number), c/o Missouri State Medical Association, P.O. Box 1028, Jefferson City, Mo. 65102.

All advertisements are subject to approval by the Editorial Board prior to acceptance.

Physicians Wanted

Family Physician Needed — Immediate need for BC/BE family physician to join 2 established family physicians in private practice in N.W. Iowa community of 5,000. Modern clinic across the street from JCAH hospital. Excellent salary and fringe benefits with partnership opportunity. Locum tenens opportunity available also. Call collect 712/324-2511 or contact Sheldon Family Practice Associates, 206 N. 7th Ave., Sheldon, Iowa 51201.

Pediatrician, Family Practice, OB/GYN, General Internist & ENT — needed for two-hospital, historic river town of 20,000. Drawing area of approximately 60,000 with new 19,000 acre recreational lake. Unlimited potential. Contact: Carol Neil, Physician Recruitment, 623 Broadway, Hannibal, MO 63401 or call 314/221-3107.

Director, Occupational Health: Opportunity to direct growing occupational health service in large midwestern city. Position offers a variety of challenges in conjunction with joint programs in sports medicine and executive fitness. BE/BC with 1-2 years experience a plus. Competitive salary, incentives, and a negotiable benefits package. Contact Jim Davis, TYLER & CO, 9040 Roswell Road, Atlanta, GA. CALL 404/641-6411.

Internist BC/BE with or without subspecialty to join five-physician single specialty group practice in S.W. Missouri serving a population of 1,000,000+. Excellent opportunity with competitive salary guaranteed plus incentive bonus. Malpractice and excellent benefits paid; opportunity for ownership. Pleasant recreational environment in the Ozarks. Please call or mail CV to Administrator, The Diagnostic Clinic, 3443 South National, Springfield, MO 65807. 417/883-3443.

Family Practice or BE/BC general surgical opportunity in a North Missouri Community to replace a retiring BC surgeon. Practice is located in a multi-office medical building adjacent to a modern, well-equipped 50-bed hospital. Will make attractive arrangements for sale or lease of equipment. Letters of inquiry with CV to File #5, c/o MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City, MO 65102.

One Psychiatrist — needed to complement a team of dynamic psychiatrists and general physicians. Located 65 miles south of St. Louis on Highway 67, our hospital has 318 beds. We are looking for Board Certified or Eligible specialists. Remuneration will range from $67,000 up, depending on years of experience, Board Certification and optional on-call days. Fringe benefits come to an additional 35% of the salary which includes vacation time, sick time, CME allowance, health insurance and life insurance. For detailed information, please write to: Adolph J. Herath, M.D., Medical Director, Farmington State Hospital, Farmington, MO 63640 or call 314/756-6792, extension 347.

Board Certified/Eligible Psychiatrist position available at the John J. Pershing VA Medical Center which is JCAH accredited. This is a 225-bed facility with a Mental Hygiene Clinic. The Medical Center is located in the scenic southeast Missouri city of Poplar Bluff. The locality offers good local schools with a junior college, recreational activities and a reasonable cost of living. Excellent benefits such as 30 days paid vacation, 15 days paid sick leave, low cost health/life insurance, retirement plan with government matched thrift savings plan. No malpractice insurance required since coverage is provided by the Federal Torts Act. U.S. Citizens must be given first consideration, but physicians with permanent or immigrant visas may also be considered. Salary commensurate with qualifications (range $70,000-$76,000) based upon experience, training, and board certification. Interested physicians should contact Don L. Andrus, M.D., Chief of Staff, John J. Pershing VA Medical Center, 1500 N. Westwood Blvd., Poplar Bluff, MO 63901, or telephone 314/686-4151, ext. 201. AN EQUAL OPPORTUNITY EMPLOYER.

Psychiatrist wanted to work in established private practice with office locations in Creve Coeur and Florissant, Missouri. Responsibilities include outpatient and hospital rounds. Part-time and full-time positions available. Excellent financial package as well as opportunity to form long-term relationship. Please contact John at 314/993-8950.

Occupational Medicine Physician — to join a well-established group practice serving more than 200 industries. Excellent compensation and full partnership potential. Responsibilities include primary care, treating workmen's comp injuries, disability evaluations, medical surveillance, and developing and implementing occupational medical programs for various industries. Should be board certified/eligible, M.D. Send C.V. to: William R. Green, M.D., Macon Medical Center, 7200 Manchester, St. Louis, MO 63143, or call 314/645-7744.

Emergency Medicine in IL and MO — Full and part-time positions available in emergency departments and clinics for qualified physicians seeking lucrative employment opportunities. Outstanding remuneration and comprehensive malpractice insurance provided. For further information contact: Deborah Bergun, staffing specialist. National Emergency Services, Inc., 255 Executive Dr., Suite 104, Plainview, NY 11803 or call 1-800-645-4848 or 516/349-0100.

Healthline Physician Services, an affiliate of St. Louis University Medical

Physician Wanted

Center, has part-time and full-time opportunities available for physicians in Emergency Department, Clinic, and Locum Tenens work. We are presently recruiting for emergency departments in St. Louis city and metropolitan area. Excellent compensation, flexible schedules, administrative opportunities and benefits, no "on-call" responsibilities and a challenging medical environment. If you are just starting out, looking for a career change, or want to supplement your income from another source please contact: Barry Trautman, Healthline Physician Services, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Full-Time Private Practice Opportunities from Healthline Physician Services, an affiliate of St. Louis University Medical Center, for the following specialties: Board Eligible or Board Certified Internal Medicine, and Board Certified Family Practice, Pediatrics and OB-GYN. Positions include income guarantee and no capital investment. For more information contact: Barry Trautman, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Practice Wanted

Board certified psychiatrist wants to buy a psychiatric practice in St. Louis Metropolitan area. Please reply c/o Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102, File #10.

$1,000,000 per year practice, with owner(s) interested in selling and/or retiring within 24 months. Equity payments and continuing compensation to be tailored to individual plans. Reply in confidence with a description of your practice and plans for the near future c/o File #4, MSMA, Box 1028, Jefferson City, MO 65102.

Practice For Sale

Private Practice Opportunities: Family Practice and Internal Medicine, no cash outlay, attractive salary, excellent incentive compensation, liberal benefits including malpractice. Prospective for OB/GYN, Pediatrics, Psychiatry. Send C.V. to Don Hoit, Farris & Associates, Inc., 16216 Baxter Road, Suite 200, Chesterfield, MO 63017 (314) 532-4880.

Worldwide opportunities. HEALTH RESOURCES now has more than 70 affiliated offices throughout the United States and three international representatives serving physicians interested in selling, buying or relocating their practice. Our work has received national attention in publications ranging from MEDICAL ECONOMICS to MEDICAL GROUP MANAGEMENT. Competition, illness and death can cut your practice's value overnight. If you are 55 years of age or older, are tired of the business burdens of owning a practice, or plan to move to a better area within the next two years, you need to begin your transition plan now. Call HEALTH RESOURCES, LTD. in confidence. 816/587-0920 (Opportunities will be discussed at the March 1988 MSMA meeting for those with advanced plans.)

General ophthalmological practice for sale. Area — Liberty, MO near two modern hospitals and a college. Established medical/surgical practice. Liberal terms are negotiable. Please call: Michael E. Castillo, M.D., 816/781-9120 or 816/587-8075.

Positions Wanted

Position wanted. Board Certified Cardiologist (internist) Invasive — Non Invasive, Missouri licensed, wishes to join group, hospital, industry, company, etc. Reply to Box No. 8, c/o MSMA, P.O. Box 1028, Jefferson City, MO 65102.

Administrator Wanted

The John J. Pershing VA Medical Center, Poplar Bluff, Missouri located in the scenic Ozark foothills, has the position of Medical Records Administrator (RPA) available. Individual will be Chief, Medical Information/Records section, in this 225-bed GM&S facility. Poplar Bluff has a very reasonable cost of living, good schools, and moderate climate. Position offers good benefits such as a retirement plan, government matched thrift savings plan, low cost health/life insurance and excellent vacation/sick leave. Salary of $18,358-$27,701 depending on experience, education and training. Interested RRA's should contact the Personnel Service (05), John J. Pershing VA Medical Center, 1500 N. Westwood Blvd., Poplar Bluff, MO 63901. AN EQUAL OPPORTUNITY EMPLOYER.

CME Cruise

1988 CME Cruise/Conference on Medicolegal Issues & Risk Management — Caribbean, Mexico, Alaska, China/Orient, Europe, New England/Canada, Trans Panama Canal, South Pacific. Approved for 24-28 CME Cat. 1 Credits (AMA/PRA) and AAFP prescribed credits. Distinguished lectures. EXCELLENT GROUP RATES ON FINEST SHIPS. Registration limited. Prescheduled in compliance with IRS requirements. Information: International Conferences, 189 Lodge Ave., Huntington Station, N.Y. 11746. 516/549-0869.

Equipment for Sale

For Sale: "Circadian" Holter System, (24/48 hr), in perfect condition. Can be read in office with computer readout results in a few minutes. Can also be hooked to Circadian Pulmonary function test machine. Asking $8500.00. New one cost approximately $20,000. Call 417/678-3457.

You read
this space
and so did
6,000
other
physicians.
Place your
classified
today!
Call
314/636-5151.

In acute and chronic edema due to CHF

FOR PREDICTABLE CONTROL

- **Less potassium loss for a given amount of sodium excretion than with furosemide[1-3]**
- **Predictable dose response[4]**
- **Diuresis completed hours faster than with furosemide after oral dosing[5]**
- **Better GI absorption[6,7]**
- **Early evening dosing helps prevent nocturnal dyspnea**

1 mg / 4 ml
BUMEX®
(bumetanide)
For I.V. or I.M. Use
0.5 mg/2 ml
BUMEX®
bumetanide
0.25 mg per ml
For I.V. or I.M.
BUMEX 2
ROCHE
BUMEX 1

As with all loop diuretics, excessive doses of BUMEX can lead to profound diuresis with water and electrolyte depletion, including hypokalemia, so serum electrolytes should be monitored.

Bumex®

bumetanide/Roche

0.5-mg, 1-mg and 2-mg scored tablets; 2-ml ampuls and 2-ml, 4-ml and 10-ml vials (0.25 mg/ml)

References: 1. Flamenbaum W: *Am J Cardiol 57*(2):38A-43A, 1986 2. Brater DC, Fox WR, Chennavasin P: *J Clin Pharmacol 21*:599-603, 1981. 3. Iber FL, Baum RA: *J Clin Pharmacol 21*:697-700, 1981. 4. Henning R, Lundvall O: *Eur J Clin Pharmacol 6*:224-227, 1973. 5. Physicians' Desk Reference, 40th ed Oradell, NJ, Medical Economics Company, 1986, pp. 939, 1480 6. Pentikainen PJ, *et al. Br J Clin Pharmacol 4*:39-44, 1977 7. *Lasix, A Review* Somerville, NJ, Hoechst-Roussel Pharmaceuticals, Inc., 1980

BUMEX®
(bumetanide/Roche)
0.5-mg, 1-mg and 2-mg scored tablets
2-ml ampuls, 2-ml, 4-ml and
10-ml vials (0.25 mg/ml)
Before prescribing, please consult complete product information, a summary of which follows:

> **WARNING: Bumex (bumetanide/Roche) is a potent diuretic which, if given in excessive amounts, can lead to a profound diuresis with water and electrolyte depletion. Therefore, careful medical supervision is required, and dose and dosage schedule have to be adjusted to the individual patient's needs. (See under DOSAGE AND ADMINISTRATION in complete product information.)**

INDICATIONS AND USAGE: Edema associated with congestive heart failure, hepatic and renal disease, including the nephrotic syndrome
Almost equal diuretic response occurs after oral and parenteral administration of Bumex If impaired gastrointestinal absorption is suspected or oral administration is not practical, Bumex should be given by the intramuscular or intravenous route
Successful treatment with Bumex following instances of allergic reactions to furosemide suggests a lack of cross-sensitivity
CONTRAINDICATIONS: Anuria. Hypersensitivity and in patients in hepatic coma or in states of severe electrolyte depletion Although Bumex can be used to induce diuresis in renal insufficiency, any marked increase in blood urea nitrogen or creatinine, or the development of oliguria during therapy of patients with progressive renal disease, is an indication for discontinuation of treatment.
WARNINGS: Dose should be adjusted to patient's needs Excessive doses or too frequent administration can lead to profound water loss, electrolyte depletion, dehydration, reduction in blood volume and circulatory collapse with the possibility of vascular thrombosis and embolism, particularly in elderly patients
Prevention of hypokalemia requires particular attention in patients receiving digitalis and diuretics for congestive heart failure, hepatic cirrhosis and ascites, states of aldosterone excess with normal renal function, potassium-losing nephropathy, certain diarrheal states, or other states where hypokalemia is thought to represent particular added risk to the patients.
In patients with hepatic cirrhosis and ascites, sudden alterations of electrolyte balance may precipitate hepatic encephalopathy and coma. Treatment in such patients is best initiated in the hospital with small doses and careful monitoring of the patient's clinical status and electrolyte balance. Supplemental potassium and/or spironolactone may prevent hypokalemia and metabolic alkalosis in these patients
In cats, dogs and guinea pigs, Bumex has been shown to produce ototoxicity Since Bumex is about 40 to 60 times as potent as furosemide, it is anticipated that blood levels necessary to produce ototoxicity will rarely be achieved The potential for ototoxicity increases with intravenous therapy, especially at high doses.
Patients allergic to sulfonamides may show hypersensitivity to Bumex
PRECAUTIONS: Measure serum potassium periodically and add potassium supplements or potassium-sparing diuretics, if necessary Periodic determinations of other electrolytes are advised in patients treated with high doses or for prolonged periods, particularly in those on low salt diets
Hyperuricemia may occur Reversible elevations of the BUN and creatinine may occur, especially with dehydration and in patients with renal insufficiency Bumex may increase urinary calcium excretion
Possibility of effect on glucose metabolism exists Periodic determinations of blood sugar should be done, particularly in patients with diabetes or suspected latent diabetes
Patients should be observed regularly for possible occurrence of blood dyscrasias, liver damage or idiosyncratic reactions.
Especially in presence of impaired renal function, use of parenterally administered Bumex should be avoided in patients to whom aminoglycoside antibiotics are also being given, except in life-threatening conditions
Drugs with nephrotoxic potential and bumetanide should not be administered simultaneously
Since lithium reduces renal clearance and adds a high risk of lithium toxicity, it should not be given with diuretics
Probenecid should not be administered concurrently with Bumex
Concurrent therapy with indomethacin not recommended
Bumex may potentiate the effects of antihypertensive drugs, necessitating reduction in dosage
Interaction studies in humans have shown no effect on digoxin blood levels
Interaction studies in humans have shown Bumex to have no effect on warfarin metabolism or on plasma prothrombin activity
Pregnancy Bumex should be given to a pregnant woman only if the potential benefit justifies the potential risk to the fetus.
Bumetanide may be excreted in breast milk
Pediatric Use: Safety and effectiveness below age 18 not established
ADVERSE REACTIONS: Muscle cramps, dizziness, hypotension, headache and nausea, and encephalopathy (in patients with preexisting liver disease).
Less frequent clinical adverse reactions are weakness, impaired hearing, rash, pruritus, hives, electrocardiogram changes, abdominal pain, arthritic pain, musculoskeletal pain and vomiting
Other clinical adverse reactions are vertigo, chest pain, ear discomfort, fatigue, dehydration, sweating, hyperventilation, dry mouth, upset stomach, renal failure, asterixis, itching, nipple tenderness, diarrhea, premature ejaculation and difficulty maintaining an erection
Laboratory abnormalities reported are hyperuricemia, azotemia, hyperglycemia, increased serum creatinine, hypochloremia, hypokalemia, hyponatremia, and variations in CO_2 content, bicarbonate, phosphorus and calcium. Although manifestations of the pharmacologic action of Bumex, these conditions may become more pronounced by intensive therapy
Diuresis induced by Bumex may also rarely be accompanied by changes in LDH, total serum bilirubin, serum proteins, SGOT, SGPT, alkaline phosphatase, cholesterol, creatinine clearance, deviations in hemoglobin, prothrombin time, hematocrit, platelet counts and differential counts Increases in urinary glucose and urinary protein have also been seen
DOSAGE AND ADMINISTRATION:
Oral Administration: The usual total daily dosage is 0 5 to 2 0 mg and in most patients is given as a single dose
Parenteral Administration. Administer to patients (IV or IM) with GI absorption problem or who cannot take oral The usual initial dose is 0 5 to 1 mg given over 1 to 2 minutes If insufficient response, a second or third dose may be given at 2 to 3 hour intervals up to a maximum of 10 mg a day
HOW SUPPLIED: *Tablets*, 0 5 mg (light green), 1 mg (yellow) and 2 mg (peach), bottles of 100 and 500; Prescription Paks of 30, Tel-E-Dose® cartons of 100 Imprint on tablets 0 5 mg—ROCHE BUMEX 0 5; 1 mg—ROCHE BUMEX 1, 2 mg—ROCHE BUMEX 2
Ampuls, 2 ml, 0 25 mg/ml, boxes of ten P I 0985
Vials, 2 ml, 4 ml and 10 ml, 0 25 mg/ml, boxes of ten

Roche Laboratories
a division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

In acute and chronic edema due to CHF

A DIURETIC THAT GIVES YOU PREDICTABLE CONTROL

Bumex®

bumetanide/Roche

0.5-mg, 1-mg and 2-mg scored tablets; 2-ml ampuls
and 2-ml, 4-ml and 10-ml vials (0.25 mg/ml)

Please see adjacent page for references and summary of product information.

Copyright © 1987 by Hoffmann-La Roche Inc. All rights reserved.

FRANCIS COUNTWAY LIB OF MED
10 SHATTUCK ST.
BOSTON, MA 02115

[redacted]

Missouri Medicine

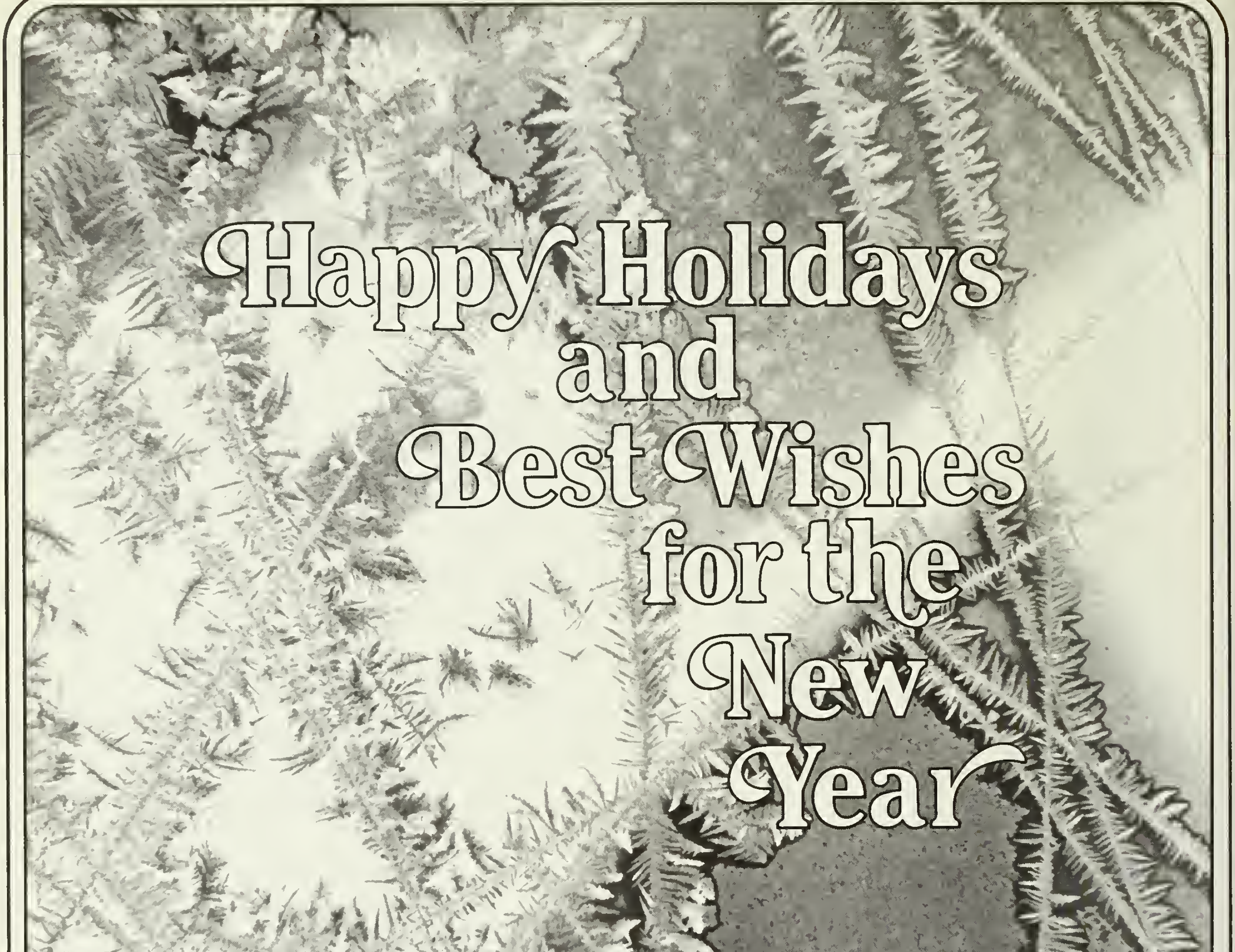
Journal of the Missouri State Medical Association December 1987

In this issue:

- HIV Positivity Rates in Kansas City
- Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital
- The Health Insurance Experience and Status of 321 Renal Transplant Recipients

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA

DEC 1 1 1987


Happy Holidays
and
Best Wishes
for the
New
Year
From the Staff of
MOMEDICO
Better Protection. Together.
10795 Watson Road, St. Louis, Missouri 63127
314-965-[illegible] or toll free 800-392-8039
Kansas City Office, 9229 Ward Parkway, Suite 290
Kansas City, MO 64114, 816-363-6161
Jefferson City Office, 113 Madison
Jefferson City, MO 65102, 314-634-80[illegible]

"Frost on the Window"

MOMEDICO—Founded by MSMA to provide professional liability insurance to Missouri physicians.

Contents

ON CALL

Missouri State Medical Association	314/636-5151
American Medical Association	312/645-5000
MSMA Physician Rehabilitation Hotline	816/531-1258
MOMEDICO	1-800-392-8039
Dodson Insurance Group	1-800-825-3760
MSMA Retirement Plan/ E. F. Hutton	*(Call collect)* 314/725-9690
Forrest T. Jones	1-800-892-7272
Fred S. James	Kansas City 816/842-6670 St. Louis 314/863-7777
Health Care Financing Administration	816/374-5233
Intrav	314/727-0500
Medicaid Provider Relations	1-800-392-0938
Medicare Provider Relations	1-800-392-3070
Medicare Part B Blue Cross Blue Shield	Kansas City 1-800-654-9629
Missouri Department of Health	314/751-6400
Missouri Department of Social Services	314/751-2086
Missouri Patient Care Review Foundation	*(Preadmission)* 1-800-392-8060 *(General Info)* 1-800-392-1312
Missouri State Bureau of Narcotics and Dangerous Drugs	314/751-8042
Missouri State Board of Registration of the Healing Arts	314/751-2334

Cover

"Crack of Dawn," by Joseph Orr of *Eldon, MO.* The 24" x 36" acrylic painting was completed in 1985 by this well-known Missouri artist.

Special Feature Article

749 **Where the Fault Lies**
Valerie A. Peters, Editorial Assistant

Scientific Articles

757 **Human Immunodeficiency Virus (HIV) Antibody Seropositivity in the Greater Kansas City Area**
S. Katherine Dietrich, Dale H. Giedinghagen, Gerald L. Hoff, Ph.D., and William L. Bayer
Kansas City, Missouri

759 **Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital**
Robert M. Doroghazi, M.D., James S. Carter, M.D., Nancy L. Doroghazi, M.S.N., Kay Klinkenborg, B.A., Charles W. Barbee, M.D., and John A. Crouch, M.D.
Columbia, Missouri

764 **The Health Insurance Experience and Status of Missouri Renal Transplant Recipients**
The Scientific Advisory Board, National Kidney Foundation of Eastern Missouri and Metro East, Inc.
St. Louis and Columbia, Missouri

Departments

735 Progress Notes
739 Book Reviews
741 Editor's Desk
743 Auxiliary Message
745 Practice Management
770 Information for Contributors
770 Index to Advertisers
775 New Members
779 Medical School News
783 Physician's Recognition Award
785 Continuing Medical Education
786 Index to Volume 84
793 Classifieds

THE FRANCIS A. COUNTWAY
LIBRARY OF MEDICINE
BOSTON, MA
DEC 11 1987

P lan Ahead . . .

Everyone should have insurance, regardless of their profession. As a medical professional, you know the importance of having coverage that can help meet your needs for today and tomorrow. The Missouri State Medical Association understands your needs and is able to protect you with comprehensive plans like these:

- $1,000,000 Major Medical Plan - $1,000,000 worth of solid major medical protection. Your choice of deductible. Coverage may be continued for life. Especially designed to help fill the needs of you, the medical professional, and your family.
- $250,000 Term Life - An inexpensive way to give your family sound financial protection. Pays up to $250,000 in benefits—spouses may be covered for up to $100,000. Volume discounts for coverage over $100,000. Make sure that your family is protected.
- Accidental Death and Dismemberment - Avoid a financial crisis in the event of a serious accident. Just $4 a month can buy $100,000 protection for you and your family. Round the clock coverage to give your family a large measure of the protection they need.

Underwritten by: The Mutual Life Insurance Company of New York

Administered by: Forrest T. Jones & Company, Inc., Kansas City, MO

For more information, CLIP THE COUPON BELOW OR CALL TOLL-FREE: National - 800-821-7303, Missouri - 800-892-7272, Kansas City 816-756-1060, ASK FOR JAN PACEY

Check the boxes below for more information on MSMA-sponsored Plans and mail this coupon to: Forrest T. Jones & Company, Inc., P.O. Box 418131, Kansas City, MO 64141-9131

☐ $1,000,000 Major Medical ☐ $250,000 Term Life ☐ $100,000 AD&D

Name ______________________

Address ______________________

City ______________ **State** ________ **ZIP** ________

Missouri Medicine

Vol. 84, No. 12 *Journal of the Missouri State Medical Association* December 1987

Editor
Jordan W. Burkey, M.D.
Associate Editor
Donald G. Sessions, M.D.
Managing Editor
Susan Flanigan Gold
Business Manager
Royal O. Cooper
Editorial Assistant
Valerie Peters

EDITORIAL BOARD

Anesthesiology
George P. Hoech, Jr., M.D.
Cardiovascular Surgery
Jack J. Curtis, M.D.
Dermatology
Philip C. Anderson, M.D.
Ernest Lorenc, M.D.
Emergency Medicine
David M. Trantham, M.D.
Family Practice
William D. Bradshaw, M.D.
Carl R. Kruse, M.D.
Kirby L. Turner, M.D.
Gastroenterology
Jay P. Marshall, II, M.D.
Internal Medicine
John S. Daniels, M.D.
Stephen Hamburger, M.D.
Robert K. Skillman, M.D.
Neonatology
Elizabeth J. James, M.D.
Neurosurgery
Keith Rich, M.D.
Obstetrics and Gynecology
Thomas M. Mier, M.D.
Oncology
Michael C. Perry, M.D.
Ophthalmology
John C. Hagan, III, M.D.
F. Thomas Ott, M.D.
Orthopedics
Raymond A. Ritter, Jr., M.D.
Pathology
Eugene F. Tucker, M.D.
Pediatrics
R. Don Blim, M.D.
Psychiatry
William F. Clary, M.D.
Radiation Therapy
MacDonald B. Logie, M.D.
Radiology
Frederick M. Brandon, M.D.
Donald R. Germann, M.D.
General Surgery
Richard O. Craig, M.D.
Donald Silver, M.D.
Urology
Gilbert Ross, Jr., M.D.

PUBLICATIONS COMMITTEE

Chairman
Jordan W. Burkey, M.D.
Vice-Chairman
Donald G. Sessions, M.D.
Members
Donald E. Menchetti, M.D.
Jerry W. Templer, M.D.
John K. Layle, M.D.
Earl R. Schultz, M.D.

MSMA STAFF

Executive Vice President
Royal O. Cooper
Executive Director
C. C. Swarens
Director of Scientific Affairs
Ron Ellison
Field Secretary
Don Wilson
Director of Governmental Relations
Thomas L. Holloway
Director of Communications
R. Kay Dinolfo

MSMA Officers

President	Larry G. Piepergerdes, M.D., *Kansas City*
President-Elect	T. J. Cooper, M.D., *St. Louis*
Secretary	Berry Ivy, M.D., *Springfield*
Treasurer	Jay Meyer, M.D., *St. Louis*
Immediate Past President	H. Peter Ekern, M.D., *Mexico*
Vice President	William J. Medlicott, M.D., *Kansas City*
Vice President	William C. Allen, M.D., *Columbia*
Vice President	John P. Roberts, M.D., *St. Louis*
Speaker	Arlen D. Winsky, M.D., *Springfield*
Vice-Speaker	Jo-Ellyn M. Ryall, M.D., *St. Louis*

Councilors

Marvin A. Singleton, M.D., *Joplin*, Chairman
Gary A. Dyer, M.D., *St. Joseph*, Vice Chairman
Robert V. Tompson, M.D., *Moberly*
William H. Huffaker, M.D., *St. Louis*
J. Otto Lottes, M.D., *St. Louis*
Arturo Montes, M.D., *St. Louis*
Frederick D. Peterson, M.D., *St. Louis*
David Wilkinson, M.D., *St. Louis*
Carol F. Williams, M.D., *St. Louis*
J. Michael Conoyer, M.D., *St. Peters*
Alan L. Braun, M.D., *Jefferson City*
Jerry Murrell, M.D., *Columbia*
A. J. Campbell, M.D., *Sedalia*
Raymond J. Caffrey, M.D., *Independence*
Robert T. Gibbons, M.D., *Prairie Village, KS*
Frederick W. Hahn, M.D., *Kansas City*
Dorothy D. Reister, M.D., *Shawnee Mission, KS*
Francis M. Corry, M.D., *Springfield*
David O. Barbe, M.D., *Mountain Grove*
Melvin C. Kasten, M.D., *Cape Girardeau*
Dean Blakeley, *Columbia*
Charles W. Barbee, M.D., *Columbia*
Gerry A. Love, M.D., *Kansas City*

Vice Councilors

Stephen Vilmer, M.D., *Shawnee Mission, KS*
Carl R. Kruse, M.D., *Palmyra*
Frank Ostapowicz, M.D., *Clayton*
Sammy L. Farrell, M.D., *Washington*
Jerry Meyer, M.D., *Concordia*
Mark W. Martin, M.D., *Lee's Summit*
David W. Hall, M.D., *Rogersville*
Thomas R. Stubbs, M.D., *West Plains*
William C. Shell, M.D., *Sikeston*
Evan Saunders, *St. Louis*
William Dorzab, M.D., *Kansas City*
Victoria Martin, M.D., *Shawnee Mission, KS*

AMA Delegates

Francis X. Lieb, M.D., *St. Louis*
Hugh E. Stephenson, Jr., M.D., *Columbia*
George M. Bohigian, M.D., *St. Louis*
Melvin C. Kasten, M.D., *Cape Girardeau*
Larry G. Piepergerdes, M.D., *Kansas City*
Vernon H. Balster, M.D., *St. Louis*
Walter A. German, M.D., *Springfield*

Printing Office: The Ovid Bell Press, Inc., Fulton 65251

Missouri Medicine (ISSN 0026-6620) is published monthly by the Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102.

Subscription rates: $15 per year. Interns and Residents, $7.50 per year

Second class postage paid at Jefferson City, Missouri and at additional mailing offices.

Postmaster: Send address changes to Missouri State Medical Association, c/o Membership Department, P.O. Box 1028, Jefferson City, MO 65102.

The articles published in *Missouri Medicine* represent the opinions of the authors, and do not necessarily reflect the official policy of the Missouri State Medical Association.

Copyright © 1987 by the Missouri State Medical Association. All rights reserved. Publication number 355380.

Doctor-Lawyer?

Today's physician may suffer from occupational confusion. Certainly, with malpractice suits so frequent, and dare we say "popular", it's no wonder that physicians today find themselves half doctor-half lawyer.

At Medical Defense Associates, we feel that if you were trained in the healing arts, that's what should concern you, not the practice of law. That's why MDA offers comprehensive protection against malpractice suits on a not-for-profit basis. Should you receive an unmerited claim, we'll fight it for you. That's because MDA answers only to its policyholders, not stockholders! Don't risk policy limits that really aren't sufficient for today's liability climate.

Call us, toll free, and let's talk about protection for your career. With MDA, you'll probably spend a lot more time practicing medicine . . . and, a lot less time in court.

Call toll free 1-800-492-7212

Medical Defense Associates

P.O. Box 3817
Springfield, MO 65808

Represented by Wedgeworth and Co. Ltd.
dba Missouri Malpractice Managers

MSMA Progress Notes

Holloway joins MSMA staff

The newest addition to the MSMA staff is Thomas L. Holloway, who began work on November 2 as the new Director of Governmental Relations. He replaces Gary Dey, who resigned in August to take a position with Glaxo, Inc.

Holloway comes to Jefferson City by way of Washington, D.C., where he was a registered Lobbyist and Federal Affairs Representative for Missouri's five investor-owned electric companies. Prior to that, Holloway worked as a consultant to the Legal Services Corporation and was Chief Legislative Assistant to Congressman Wendell Bailey.

Holloway will be assisting in administering the MSMA Legislative Program and filling in as the Medicare and Medicaid Liaison as well as the Liaison with the State Department of Social Services, Department of Health, and State Division of Insurance.

Holloway graduated in 1978 from Central Missouri State University with a Bachelor of Science degree in Political Science. His wife, Leslie, is the assistant to the Director of the Missouri Department of Agriculture. ■

Health Alliance '87

The MSMA participated in "Health Alliance '87: Meeting the Opportunity 2000 Challenge" on Nov. 12 in Jefferson City.

The meeting consisted of representatives from Missouri government, medical organizations, business, labor and legislative leaders.

The groups involved are attempting to achieve a consensus on the many major health issues that affect Missourians. Some of the issues discussed at the meeting were indigent care, health manpower, health education, AIDS, alternative delivery systems, rural health, medical liability and cost containment. ■

Risk retention groups

Physicians should be cautious of a new insurance mechanism recently made available by virtue of federal legislation. Called "risk retention groups," (RRG) these are insurance mechanisms which are exempt from control by state insurance laws. They generally have to meet lower capitalization and surplus requirements than traditional insurance companies. Many of these risk retention groups are beginning to market their insurance policies in Missouri, at rates which appear to be below the conventional cost. Physicians should look closely before dropping their current insurance and going with a risk retention group. In some cases, the RRG may not have been "admitted" into the state to do business, and there are certain risks the physician assumes when signing on with one of these groups. In any event, you are well advised to examine thoroughly any alternative insurance mechanism before you make the change. You may want to consult your attorney regarding RRGs, also. ■

MSMA offers insurance survey

Telephone reports of unauthorized insurance offerings to physicians in Missouri have increased unbelievably. Each week we hear of new insurers about whom we have no information.

Apparently, some Missouri physicians are sending their money to some of these companies. The only thing worse than having no professional liability insurance is paying thousands of dollars for a policy and still having no professional liability insurance.

Physicians approached by insurers from out-of-the-way places or insurers offering too-good-to-be-true rates would do well to make inquiries before mailing their money to these carriers.

MSMA has developed a questionnaire that physicians can use to learn more about a malpractice insurance carrier. It consists of 23 questions that we feel should be asked before changing carriers or purchasing new insurance. To obtain a copy of the questionnaire, please contact the MSMA office, 113 Madison, P.O. Box 1028, Jefferson City, MO 65102, (314) 636-5151. ■

Volunteer Health Agencies

Patients of MSMA members are eligible, in some instances, to receive assistance from various volunteer health agencies in the state. In an effort to assist MSMA members in attaining assistance for their patients, a list of Missouri volunteer health agencies has been compiled. This list is published in the August 1987 MSMA directory issue of MISSOURI MEDICINE on page 430 for your convenience. ■

Pierre Keitges, M.D. honored

The College of American

Pathologists (CAP) has named Pierre W. Keitges, M.D. the recipient of the 1987 Frank W. Hartman Award. He was selected from the CAP membership of 10,000 board-certified pathologists to receive the honor, which is given to a College member for meritorious service.

Keitges has served the CAP as the chairman of several committees, as a member of the Board of Governors, and as an inspector for the College's Laboratory Accreditation Program. He was a primary force in the CAP Public Service program, begun in 1985.

Keitges received his medical degree from Creighton University School of Medicine. He is the director of clinical laboratories for St. Joseph Hospital in Kansas City, MO. He also serves as the director of laboratories for Physicians Reference Laboratory and as adjunct professor of pathology for the University of Kansas Medical Center. ■

NIH consensus panel issues report

A National Institutes of Health (NIH) consensus development statement on the management of clinically localized prostate cancer may be obtained from the NIH Office of Medical Applications of Research.

The report was prepared by a panel of experts that considered scientific evidence presented at a Consensus Development Conference at NIH. It contains recommendations and conclusions concerning the management of clinically localized prostate cancer.

At NIH, consensus conferences bring together researchers, practicing physicians, representatives of public interest groups, consumers, and others to carry out scientific assessments of drugs, devices, and procedures in an effort to evaluate their safety and effectiveness.

Free, single copies of the consensus statement on the management of clinically localized prostate cancer may be obtained from: Michael J. Bernstein, Office of Medical Applications of Research, National Institutes of Health, Building 1, Room 216, Bethesda, MD 20892. ■

NIH conference: kidney stones

A consensus development conference on the newest approaches to the diagnosis and treatment of kidney stones will be held at the National Institutes of Health (NIH), Bethesda, MD, March 28-30, 1988.

Discussion will center on the ideal diagnostic evaluation of patients with stones and the role of various treatment modalities, including lithotripsy, percutaneous surgical procedures, and medical prevention. Therapeutic toxicities, side effects, and the management of asymptomatic stones also will be discussed. ■

MSMA physician elected SMA president-elect

Roger L. Mell, M.D., orthopaedic surgeon from Chesterfield, MO, was elected President-Elect of the Southern Medical Association at its 81st Annual Scientific Assembly held in San Antonio.

The Southern Medical Association is a 50,000 member voluntary association of physicians with a territory consisting of 16 southern states and the District of Columbia. The sole purpose of the organization is to foster scientific medicine and one of its premier educational opportunities each year is its Annual Scientific Assembly.

Dr. Mell received a BS degree in Electrical Engineering from the University of Missouri and his medical degree from the Washington University School of Medicine. Dr. Mell and his wife Joan have four children. ■

HMSS to meet in Columbia

The MSMA Hospital Medical Staff Section will meet on January 30-31, 1988 in Columbia at the Holiday Inn Convention Center.

The HMSS was organized in 1987 by the MSMA. Hospital medical staffs were contacted and elected representatives to the HMSS. Currently, 75 hospital medical staffs are represented in the section. MSMA Bylaws require that each hospital's representative be a member of the MSMA and an active, voting member of the medical staff with clinical privileges at the hospital. This representative is to be elected by and from the active, voting members of the medical staff.

One of the important items on the agenda for the meeting is the discussion of HMSS bylaws. For more information, call 314/636-5151. ■

Resolutions sought for '88

Deadline for submission of resolutions for introduction before the 1987 Annual Convention is February 1, 1988.

MSMA members, component medical societies and medical students may introduce resolutions. Resolutions received by the deadline will appear in the convention delegates' handbooks.

Any resolution submitted after the deadline must be made available to the House of Delegates 24 hours before the session at which it is to be introduced.

The House must approve the introduction of late resolutions submitted for the second and third sessions at the Convention.

Introduction of a resolution at the second session requires a two-thirds majority approval of the House. Introduction at the final session requires unanimous approval in order to be presented.

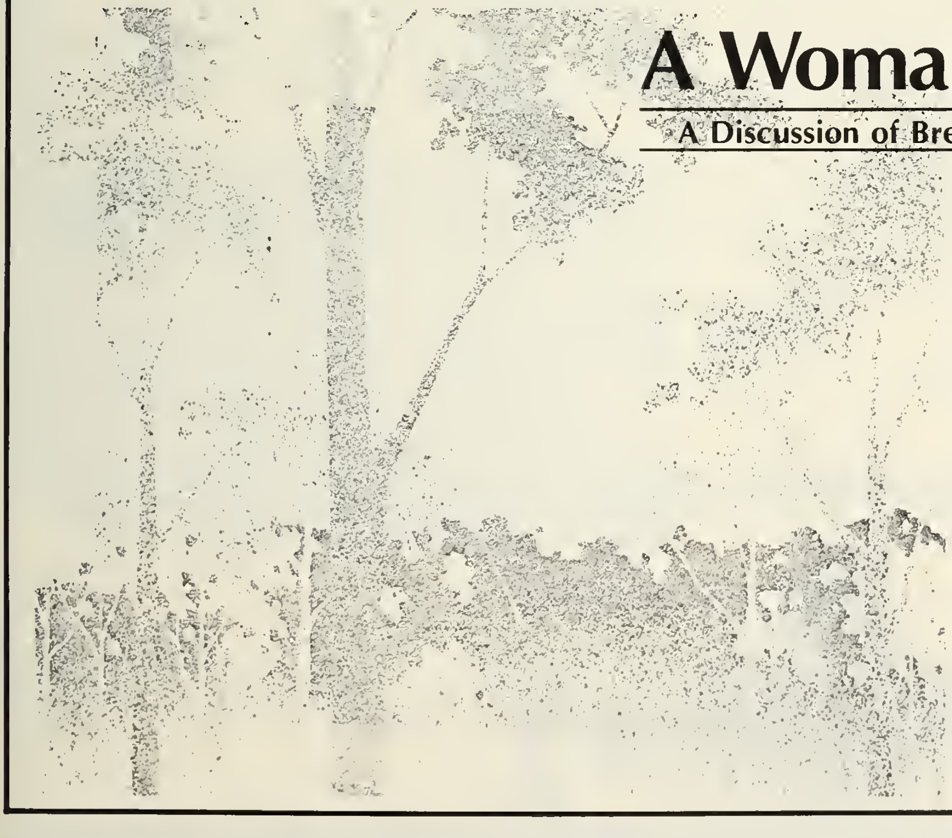
The individual or society introducing a resolution after the February deadline is responsible for supplying enough copies of the document for all convention delegates. ■

Infant Mortality grant sought

On October 26, 1987, a task force consisting of health officials from across the state met at the Holiday Inn Executive Center in Columbia, MO, at the request of the Missouri Department of Health. The purpose of the meeting was to work together to identify the infant mortality problem in Missouri and to formulate a proposal to be sent to the Robert Wood Johnson (RWJ) Foundation for consideration for a $1.2 million grant the foundation is making available.

Dr. Charles Mahan, professor of OB-Gyn at the University of Florida and the RWJ program director, spoke to the task force about the purpose of the grant proposal. He also outlined the goals of the RWJ Foundation in helping to improve infant mortality.

The group narrowed its discussion to prenatal care, with emphases on risk consultation, continuity/uniformity of care, and case management. From this discussion, the task force members chose six representatives to meet to specifically set down the goals and draft the actual proposal. The original task force will meet again on December 7, 1987 in Jefferson City for final discussion. Following this meeting, the proposal will be drafted in final form and mailed by December 23, 1987 to the RWJ Foundation. ■



From the MSMA Patient Education Library

A Woman's Choice

A Discussion of Breast Cancer Treatments

For the patient diagnosed with breast cancer, and her family.

This tasteful, attractive booklet presents a clear, understandable discussion of treatment alternatives. It is designed to increase patient awareness, and promote the family's understanding as well.

An effective adjunct to personal counseling, the booklet points out the range of possibilities in therapy and the fact that not every treatment is appropriate for every patient.

Cost: 15 cents each

To order, or for more information, contact

The MSMA
P.O. Box 1028
Jefferson City, MO 65102
314/636-5151

AIM HIGH

AIR FORCE MEDICINE

AN ATTRACTIVE ALTERNATIVE TO PRIVATE PRACTICE

Are you sick of the paperwork battle? Are you more familiar with the latest computer technologies instead of those of your specialty? Are supply and equipment problems getting you down?

Join the Air Force medical team. Concentrate on your medical practice. Leave the paperwork hassle to others. We use the group practice system of health care. It allows maximum patient/physician contact with a minimum of administrative responsibilities.

You'll get to use those skills you've gained through the years of education; to stay up with new methods and techniques; and, if qualified, to specialize.

Our superior employment and benefits package make Air Force medicine an attractive alternative to private practice. Find out how you can be a part of the Air Force health care team. Call

MSgt Bostedo
(913)491-8640
Collect

AIR FORCE

Book Reviews

Sherlock Holmes

Diagnosis and Detection — The Medical Iconography of Sherlock Holmes, by Pasquale Accardo, M.D., 139 pp. Cranbury, NJ, Associated University Presses, Inc., 1987.

About the author: Pasquale Accardo, M.D. is an associate professor of pediatrics and adolescent medicine at St. Louis University School of Medicine as well as director of the Knights of Columbus Developmental Center, also in St. Louis.

Dr. Accardo's book is certainly an epic attempt to explain the universal appeal of Sherlock Holmes, the Victorian detective. Modeled after one of Conan Doyle's professors of medicine, Joseph Bell, Sherlock's deductive logic has appealed to readers for several generations.

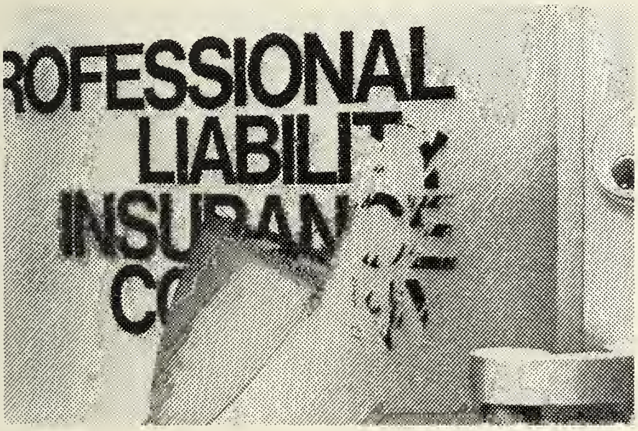
Comparing Holmes' adventures to Arthurian legend, Gargantua, and Don Quixote, Holmes becomes a transcendental figure with universal appeal with hundreds of literary analogies in quotations in which various parallels are drawn between Holmes and the above mentioned characters, Watson as Falstaff and a comparison of detection itself to its roots in science and scientific revolutions.

This small volume is somewhat overwhelming with the many connections that the author makes with various aspects of Holmes and his coterie and environment. A stylistic analysis of the 60 Sherlock Holmes' stories and some imitators is given at the back of the book.

For Holmes fans, this book should only reinforce what true believers already know. ■

William F. Clary, M.D.
Ozark Psychiatric Clinic, Inc.
Springfield, MO

In ten years your malpractice carrier may be just a memory.



Unless it's Medical Protective.

The most important thing an insurance company sells is its promise to be here when you need help. Unfortunately, that's a promise that's easy to make, but hard to keep.

When you consider liability insurance, remember this. A company that's survived tough times before is more likely to come through a crisis period. And no company has weathered more of the industry's tough times than The Medical Protective Company because we pioneered professional liability coverage nearly a century ago.

For more information contact your Medical Protective Company general agent. He'll be here when you need him.

THE
MEDICAL PROTECTIVE COMPANY
FORT WAYNE, INDIANA

Ralph E. Borgmann, Philip E. Moppert
Suite 120, 13100 Manchester Road, St. Louis, MO 63131, (314) 965-7400

Robert E. McCurdy, Thomas E. Meierant
Suite 290, 7500 West 95th Street, P.O. Box 12128, Overland Park, KS 66212, (913) 381-4222

my•o•pia

\mī-ˈō-pē-ə\: deficiency of foresight

SYMPTOMS: Most often observed in professionals who are inundated with day-to-day responsibilities. Dedicated to the needs of others, subject becomes focused on today... at the expense of tomorrow's full potential. May have complicated, expensive retirement plan with scattered investments and sometimes unfocused or nonexistent financial objectives. The lack of sufficient time and professional guidance may result in feelings of anxiety over future well-being of self, family and staff.

DIAGNOSIS: Financial myopia (common to this overworked peer group).

COMPLICATIONS: May not know where to turn for advice that is professional, comprehensive, personalized, flexible, diverse and *painless*.

R_x: As a member of the Missouri State Medical Association, you are eligible for treatment by highly qualified retirement planning specialists—no charge for initial consultation or subsequent quarterly or semiannual checkups. For security and peace of mind tomorrow (and possibly lower costs), call today for Michael Grimes - Director or Thomas Knapko - Associate Director at E.F. Hutton. Call collect 314-725-9690.

CONTRAINDICATIONS: None.

MISSOURI STATE MEDICAL ASSOCIATION
A membership benefit offered in conjunction
with Trust Consultants, Inc., and E.F. Hutton.

EDITOR'S DESK

by Jordan W. Burkey, M.D.
Editor

With health care of the older population a growing problem, what is being done about it in Missouri?

Geriatric health needs

All of us look forward to going through the pearly gates sometime in the future. One intermediate gate along the way for many, however, is the passage at age 65 into the province classified as **elderly.** This realm now contains some 12% of the population of the United States, and more specifically, it is estimated will include some three-quarters of a million people in Missouri in another dozen years. This enlarging fraction of the population has many inherent problems, with one of the chief ones being health care.

There seems to be a gradual realization that, like the pediatric patients at the younger end of the spectrum, oldsters have different health care needs. Cancer, heart disease, diabetes, diet — these are the medical problems of oldsters about which physicians worry. However, senior citizens are more fearful of being dependent and of the act of dying, and are more mentally involved with grief, failure to have succeeded in life, and family conflicts. The statistic that pathological depression is the largest undertreated problem of the elderly is matched by another statement that physicians spend less time with their elderly patients, and thus tend to miss or underdiagnose their illnesses.

With health care of the older population a growing problem, what is being done about it in Missouri? As the authors in this month's *Missouri Medicine* indicate, many specific diseases such as involve the coronary arteries, can be safely repaired in the elderly.

However, a good share of the illnesses of the older age group cannot be "fixed." This fact probably turns off the average doctors, who feel they have been trained to fix/cure diseases. A good share of the health problems of the elderly cannot be rectified; the patients and their doctors must live with their situations.

Of the four medical schools in Missouri only one has a designated section of geriatrics. A second offers fellowships in diseases of the aged, and the two others recognize geriatrics only in their psychiatry programs. Looking for a gerontologist listed as such among the members of our State Medical Society? You have your choice between two.

It's obvious that physicians and hospitals are going to have to show a greater interest in the needs of the elderly, or their health care will slide into the hands of paramedical groups. Only in this year has the first hospital structured for geriatric care been opened, in Georgia. This lower income, often ill, depression-prone segment of our population deserves a better level of health care, and we need to be active leaders in achieving it. ■

State flag of Missouri

Flag It.

To complete your prescription,
be sure to sign on the right,
on the "Dispense As Written" line.
This "flags" both pharmacist and patient
that you want the *brand* to be dispensed.
And it protects your decision.

VALIUM®
brand of
diazepam/Roche Ⓘⓥ

scored tablets

2 mg 5 mg 10 mg

The one you know best.

The cut out "V" design is a registered trademark
of Roche Products Inc.

Copyright © 1987 by Roche Products Inc.
Manati, Puerto Rico 00701. All rights reserved.

ROCHE®

Holiday Cheer

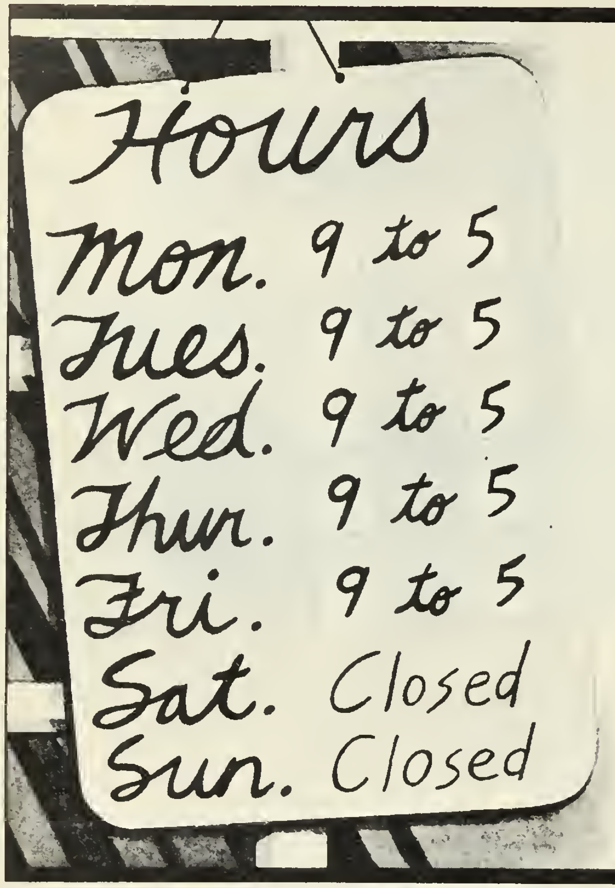
Season's Greetings
From
These Sponsors of the
Missouri State Medical Foundation
and the
American Medical Association
Education & Research Foundation

Dr. & Mrs. John Mitchell
Dr. & Mrs. Gary A. Dyer
Dr. & Mrs. Charles Barbee
Dr. & Mrs. Thomas Sparkman
Dr. & Mrs. Robert Wankum
Dr. & Mrs. Larry G. Piepergerdes
Dr. & Mrs. Melvin C. Kasten
Dr. Berry Ivy
Dr. & Mrs. Francis X. Lieb

Dr. & Mrs. Robert Willcoxon
Dr. & Mrs. Jerry L. Meyer
Dr. & Mrs. Donald Fakhoury
Dr. & Mrs. Stephen Vilmer
Dr. & Mrs. Donald Kuenzi
Dr. & Mrs. Charles H'Doubler
Dr. & Mrs. John Hunkeler

Dr. & Mrs. Larry G. Mayuga
Dr. & Mrs. Marvin Singleton
Dr. & Mrs. Hugh E. Stephenson
Dr. & Mrs. Richard Bowles
Mrs. David V. Miller
Mrs. William H. Goodson
Dr. & Mrs. Richard Sutter
Dr. & Mrs. George Bohigian
Dr. & Mrs. W. R. McPhee
Dr. & Mrs. Chester Fee
Dr. & Mrs. L. A. Hollinger

Dr. & Mrs. A. J. Campbell
Dr. & Mrs. Francis Corry
Dr. & Mrs. Donald Sanders
Dr. & Mrs. Donald Sklenar
Dr. & Mrs. William Huffaker
Dr. & Mrs. Kenneth Bruns
Dr. Dorothy Dailey Reister



Accidents Don't Keep Regular Hours.

Neither Should Your Personal Accident Insurance.

And when they do, they can be costly. That's why the MSMA sponsors an insurance plan for members . . . one that offers attractive coverage at a favorable price.

Accidents occur everywhere — on planes — on buses or other public conveyances — in cars — on the job — in the home — in sports activities.

All members under age 65 are eligible. Your spouse and children (to age 23) can be covered if you apply. Coverage is provided without regard to health history.

The plan is underwritten by Commercial Insurance Company, Newark, N.J.

A NEW, IMPROVED program is now available to you!

Coverage has been broadened and premiums reduced.

Up to $200,000 coverage available for members — Spouse and Children may also be insured.

For full particulars, the Administrators invite you to call or write today.

-------detach here and mail-------

Mail to: James
FRED.S.JAMES&CO.OFMISSOURI,INC.

Eastern Missouri Administrator
231 S. Bemiston
Clayton, MO 63105
(314) 863-7777

Western Missouri Administrator
2420 Pershing Road
Kansas City, MO 64108
(816) 842-6670

Please send me a brochure and application for the Missouri State Medical Association sponsored plan(s) I've checked below. I understand there is absolutely no obligation.

☐ Personal Disability Income
☐ Office Overhead Expense
☐ Hospital Indemnity Plan
☐ Accidental Death & Dismemberment Insurance

Name ____________________

Address ____________________

City ____________ State ____________ ZIP ____________

Phone: ( ) ____________ Best time to call: ____________

PRACTICE MANAGEMENT

George S. Conomikes

A carefully written handbook for physicians' offices can improve morale, prevent disagreements and maybe keep you out of court

Do's and don'ts of writing a personnel manual

Some physicians and office managers prefer to make policy decisions on the basis of personnel hunches, likes and dislikes, or just plain delight in running the show. They don't want to delegate authority in hiring and firing, or rewarding and punishing employees. But that's a risky and time-consuming way of managing personnel. Eventually every practitioner finds that his life would be a lot easier — and his employees a lot happier — if the policies he is constantly being called on to make were written down.

Any practice with more than 15 employees, and even with as few as five, should issue a policy handbook. It should answer some of the most important questions employees ask — questions about salary review, holidays, benefit programs, leaves of absence, and other critical policies that often affect morale and whose absence can create legal problems. The handbook should have two goals: It should keep all employees informed about regulations and changing policies, and it should give supervisors the support they need when they have to enforce those regulations and policies.

A lawyer is the best person to consult before you issue a policy statement to employees. (Remember, a policy handbook may be considered legally binding in the event of a dispute or an unfair employment practice claim.) The following is an outline of the major items that should be included in a personnel policy handbook, along with some do's and don'ts to consider when you're drafting or revising a handbook.

Physical examinations. Establish your right to conduct both pre-and post-employment physical exams, at company expense. Be sure your decisions to conduct a physical and non-discriminatory — i.e., don't just examine older people or minorities.

Probationary period. Define the period (usually 30, 60 or 90 days) during which a new employee can be dismissed without a hearing on the cause; also indicate when benefits start to accrue. Avoid a great discrepancy between probationary period and the period before an employee qualifies for group insurance.

Hiring of relatives. State whether you will allow a married couple or close relatives to work together. Exceptions might be made for part-time or temporary help.

Work hours. Define the work-week and time allotted for lunch and breaks. Indicate the cut-off time for each pay period. Provide yourself with the option of rescheduling individual hours or work in any given week at the discretion of the supervisor.

Employee status. Define the nature of each type of employee — full-time, part-time, temporary and "non-exempt." Make clear what benefits each is eligible for. Be specific to avoid

Continued on page 746

■ Practice Management

Continued from page 687

any chance of misunderstanding.

Overtime pay. Establish clearly whether overtime is paid for work over 40 hours a week or over eight hours in a given day, and how much is paid for work on a holiday. Make it clear that pay for overtime must be approved by a supervisor. Don't say that you are bound to assign overtime on the basis of seniority.

Pay reduction for lateness. The usual policy is to go by the clock, i.e., to dock an employee's pay in units of six minutes or tenths of an hour. Using too large a unit, such as a quarter of an hour, may cause problems. It may be illegal to dock an employee's pay by that much if he is only a few minutes late.

Severance pay. Have no policy. Unless state law requires, you don't have to pay for accrued vacation time.

Performance review and merit increases. Review wages either on the anniversary of employment or during a set annual period. This policy is essential — some employees would rather quit than ask for a raise. Don't commit yourself to cost-of-living increases; make all raises based on merit.

Time clock or sign-in system. Rules should prohibit employees from recording another's time, causing another employee to record for him or failing to record his time. Rules also should forbid signing in too soon or out too late without authorization. You must keep some sort of record of hours worked by "non-exempt" employees. Early sign-ins or late sign-outs will make you liable for overtime pay in case of a conflict or dispute.

Emergency shutdowns. Consider whether you will pay some minimum "call-in" wage in case you have to close down because of bad weather, a power failure, or some other unforseen problem. What advance notice will you provide, if possible, in the event of such a shutdown? Make sure you treat everyone the same. If you pay the regular wage to those who don't show up, you should pay those who do come in something extra.

Group insurance benefits. State coverage generally and briefly, indicating what portion of premium costs the company pays for, how long a new employee has to wait for coverage, etc.

Holidays. List all holidays, and state how long an employee has to work to qualify for a paid holiday. Also indicate that employees have the right to take religious holidays without pay. What happens if the holiday occurs during an employee's vacation? What pay is given for work on a holiday? Leave some room to reschedule a holiday depending on business conditions. You don't have to pay overtime in a week with a holiday unless more than 40 hours are worked.

Vacations. Policies should conform with local practices. (Consult Bureau of Labor Statistics surveys and other published information.) How does a new employee qualify for vacation? May a person choose to work instead of taking a vacation? May one take off more than two weeks at a time or as little as a day at a time? Are permanent part-timers given any vacation? Will accrued vacation pay be given at severance? Will a person on leave of absence accrue vacation time? Don't let vacation scheduling supersede the needs of any individual department. Check state laws regarding payment of accrued vacation time at severance.

Personal time/sick leave. Six to 10 days per year is the typical number of sick days allowed. Give employees the option of accumulating a reasonable number of days (20 or 30) for the future, or create a payback system for those who don't abuse the privilege. The advantage of calling it "personal time" rather than "sick leave" is that employees will take sick leave without giving advanced notice. Require "proof of illness" if you pay for time off only in the case of illness. Don't let personal time accrue during an extended leave of absence.

Disability leave of absence. Federal law requires leave time for disability due to pregnancy to be equal to that allowed for disabilities that affect only males. You must set some reasonable time limit during which you will guarantee job protection for a disabled worker. A 60-to 90-day period is typical. You may require pregnant women to sign statements of intent to return to work provided you require male workers disabled for other reasons to do the same. You may also reserve the right to require a physical examination by a company-appointed doctor if required of both males and females. You do not have to have a leave policy at all if you don't want it, but some states have laws requiring a minimum leave time for pregnant women.

Personal leave of absence. If you decide to grant such leaves, you may want to specify that they may not exceed 30 (or 60) days, and that they may not be taken to look for or perform another job, or to start another business. You may want to omit this item and play it by ear. If you plan to grant only discretionary leaves, omit this item.

Jury duty. Required by law, and some local statutes also require you to pay all or a portion of wages. Depending on local laws, you may want to set limits on how many days of jury duty you will pay for, and set a qualifying period of employment before you will pay for jury leave. Don't require that employees sign over to the company the checks they receive from the court for serving on a jury. This may cause tax problems. Just pay them the difference between the amount of the check and the pay they would have received.

Bereavement pay. Employees expect the company to be very lenient in this matter. Typical policy allows three to five work days off with pay in the event of a death in the immediate family. Absence of a policy of some sort is bad for morale, but it's important to be consistent in granting the benefit.

Pension or profit-sharing plan. Mention that you have a plan, when and how the employee becomes qualified for it, whether an employee contribution is permitted or required, and when an employee becomes vested. Don't go into great detail; refer instead to a separate description of the plan.

Suggestion system. State that the company encourages employees to submit ideas and suggestions to improve operations and reduce costs, and that an employee who submits ideas is considered a highly conscientious one. Avoid a formal system. Committing yourself to a specific system of reward for ideas is also unwise.

Tuition assistance. Set length of tenure requirement before the assistance is available. Require proof of course completion and consider awarding a large percentage of costs for a high grade. This is a good policy because it substantiates your desire to provide equal advancement opportunities, but don't commit yourself to paying all costs or fees. ■

Send in your resolutions for the 130th MSMA Convention by February 1, 1988

Mail to:

Resolutions
MSMA Convention
P.O. Box 1028
Jefferson City, MO 65102

New **HemaWipe**® System
Designed to solve the compliance problem

Just wipe, peel and seal.

Introducing the first "civilized" test for fecal occult blood.

For more information call

The GOETZE-NIEMER CO.
1701 Brooklyn, K.C., MO. 816-231-1900
1-800-892-7337 (MO) 1-800-492-7337 (KS)

COMING SOON

As always, the annual convention of the MSMA will offer a variety of C.M.E. opportunities, specialty seminars and meetings, and the unique opportunity to participate *personally and directly* in your Association's decisionmaking process.

Plan now to attend March 17-20, 1988.

Make your voice heard!

130th Convention

MSMA

HYATT REGENCY

KANSAS CITY

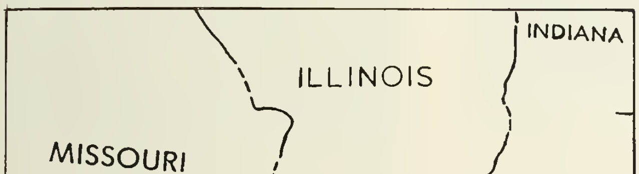
MARCH 17-20, 1988

For information about submitting resolutions to the House of Delegates, or becoming a delegate yourself, contact

The Missouri State Medical Association
113 Madison Street
P.O. Box 1028
Jefferson City, MO 65102
314/636-5151

By Valerie A. Peters

WHERE THE FAULT LIES



MT = Marked Tree
CV = Caruthersville
MN = New Madrid
CH = Charleston

The New Madrid Fault or Seismic Zone

It isn't a question of if it will occur, but rather a question of when. An earthquake with the explosive power of more than half a million tons of TNT is a disaster waiting to happen along the New Madrid Fault in Southeastern Missouri. And believe it or not, in this area where the threat of a major earthquake is evident, few people, including the medical community, are actually prepared.

Scientists have mapped the New Madrid Zone as extending from approximately 25 miles northwest of Memphis, Tennessee, to the Reelfoot Lake area in western Tennessee where it turns northwest to southern Illinois. (See Figure A Map) It is estimated to be up to 40 miles wide and about 200 miles long. It cannot be seen by the naked eye for it is buried as much as 25 miles deep. Surface scars of old earthquakes have been covered by erosion, making it more difficult for scientists to study the fault.

This fault zone is one of the most active and dangerous seismic areas in the world. According to Arch Johnston, assistant professor of geology at Memphis State University and director of its Tennessee Earthquake

Information Center, during the period between mid-1974 and mid-1981, an average of more than 150 events a year with a magnitude greater than 1.0 have been recorded. Since 1976, scientists have detected 200 of these relatively small earthquakes a year.

In the winter of 1811-12, three great earthquakes, all exceeding a magnitude of 8.0 on the Richter Scale, shook an area centered in New Madrid, Missouri. The quakes rang church bells in Washington, D.C., toppled chimneys in St. Louis and tremors triggered as far as Quebec, Canada. Near the epicenter trees were uprooted, Reelfoot Lake was created in western Tennessee, and the Mississippi River turned briefly and ran upstream. These earthquakes and the sequence of earthquakes that continued for about six years following the initial great quakes, have the distinction of being the greatest series of earthquakes in the history of the United States.

Since the term "Great Quake" is confusing, qualification is necessary. The energy released by the 1811 series is thought to be greater than that released by all other earthquakes that have occurred east of the Rocky Mountains in the United States and Canada combined from the mid-1700s to the present. To compare them in different terms, the energy released is estimated to be equal to that of 12,000 atomic bombs the size of those dropped on Hiroshima, or 150 million tons of TNT.

Earthquakes the magnitude of those in 1811-12 are estimated to occur about every 670 years. The last earthquake of damaging proportions along the New Madrid Fault, which measured 6.2 on the Richter Scale, occurred in 1895. Its epicenter was near Charleston, Missouri, at the northern end of the fault.

Otto W. Nuttli, Ph.D., geophysicist at St. Louis University, is recognized as the reigning authority on seismicity in the central United States earning him the nickname "Dr. Earthquake." He says that the next great quake is inevitable.

> "We know the gun is loaded . . . what we don't know is when it will go off."
>
> **Otto W. Nuttli, geophysicist**

"We know the gun is loaded," he says, "what we don't know is when it will go off."

Ed Stoever, professor of geology at Southeast Missouri State University, agrees.

"The next really big earthquake will cause the earth to ring like a bell," he says. "But it's a very difficult thing to forecast."

With little doubt, "When is the next major earthquake going to happen?" is the most frequently asked and least satisfactorily answered question concerning the New Madrid Seismic Zone. And unfortunately, seismology still cannot answer this question with 100% confidence.

Forecasting earthquakes continues to prove almost impossible.

"No, there is no way at all we can actually predict when, where or how big," admits Stoever. "There are several methods that can be used to calculate the amount of stress that is built up on the fault, and you can look at historical patterns and things like that. But that's about it."

Based on an estimate of strain accumulation along the fault, Dr. Nuttli estimates that a very large earthquake of magnitude 7.6 might occur at any time, although the probability of its occurring in the near future is small. One thing is certain: The longer the time that elapses before such a great earthquake occurs, the larger its magnitude will be. However, Dr. Nuttli does suggest that it looks probable that an earthquake with a magnitude of 6.5 will occur by the end of the century. According to some reports, the statistical probability of a Richter magnitude 6.0 earthquake in the New Madrid Seismic Zone by the year 2000 is between 40 and 63%.

Already this year, the fault has produced two earthquakes since June that measured more than 4 magnitude. The most recent one was 4.5 on September 28, which was felt in Fulton, Kentucky, and Carbondale, Illinois. In early June, an earthquake measuring 5.1 on the Richter Scale occurred along the fault in southeastern Illinois and was felt in 16 states.

Although midwestern quakes that can be felt are relatively infrequent, in California earthquakes are a daily occurrance. But most Californian quakes are highly localized and don't tend to affect areas far from where the earthquake hits, because the energy of the earthquakes there is absorbed by the solid bedrock underground. The New Madrid Fault region, however, is a better conductor of earthquake energy than in California, because of the underground rock structure. The nature of the subsurface is a very hard, rigid base of sedimentary rock, but it is relatively unconsolidated, similar to sand and gravel. That kind of material transmits the surface waves in a much different fashion, carrying the energy of the quake a much further distance.

"The rock layers underneath, down deep as much as 5-10 miles," Dr. Nuttli says, "just transmit energy real efficiently in our part of the country."

Putting the possible calamity into focus, Stoever states one of the most frightening speculations about the consequences of another great earthquake.

"It's been estimated that one of the 1811-12 earthquakes occurring today would cause enough destruction that 250,000 square miles of land would have to be evacuated because there would be no way of taking care of the people on it," he says. "That 250,000 square miles would likely include either St. Louis or Memphis or maybe both, for a really big earthquake. Anything smaller than that — it's hard to tell."

One of the biggest concerns is the impact on the medical community when the big quake hits. Will the medical community be able to take care of the expected onslaught of casualties?

According to one report, the number of casualties resulting from the occurrence of a big earthquake will depend on the time of day at which it occurs. At night, most of the population is found in relatively safe, wood frame residential structures, but during a working day, the majority of the population moves to buildings which are more vulnerable to severe structural damage. A substantial proportion of the daytime casualties would occur among school children. In Memphis, for example, if a 7.6 Richter magnitude quake occurred during the evening hours, an estimated 211 deaths would occur. If the same quake occurred during the day, 2523 deaths would be likely. Twenty-six percent of those day deaths are estimated to be school children.

On the same token, if an 8.6 Richter magnitude event occurred, the number of estimated deaths would be considerably higher. If the quake occurred during the night, 435 deaths would be recorded. If the quake hit during the day, 3786 deaths would occur, with 27% of those being school children.

Michael Coe, chief earthquake preparedness planner for the State Emergency Management Agency in Jefferson City, says that his agency tries to stress individual preparedness when talking about earthquake preparedness, whether it be medical prepared-

What Could Happen, Consequences Expected

In the event of a big earthquake, a great amount of destruction will occur. Unfortunately, most consequences of an earthquake are unavoidable.

- The earthquake will occur without warning. Scientists hesitate to rely with 100% confidence on any prediction methods now available.
- The earthquake and after shocks will trigger numerous secondary events including fires, floods, landslides, dam failures, and the release of hazardous materials.
- The death and injury rate will likely be painfully high. Rubble and debris may restrict or prevent the rescue of persons trapped in or near collapsed structures.
- As many as 12 million people could be affected; the projected cost in property damage is estimated to be more than $50 billion.
- Lifeline systems, including utilities, communications, transportation and emergency services may be impaired if not destroyed. There will be no electricity, or water and sewage facilities. Restoration of services will likely take several days, maybe months.
- Roads and bridges may be impassable; railroad tracks could buckle. River barges may not be able to travel the major waterways.
- With transportation impaired, vital commodities such as food, medical supplies and materials to rebuild will be in critically short supply.
- Natural gaslines may rupture; should the earthquake occur during a cold winter, people could freeze to death because of a lack of heat.
- Emergency facilities such as hospitals, and fire and police stations, are apt to be extensively damaged or destroyed.
- The demand on state and local governments and volunteer agencies will be overwhelming.
- The federal government will not be able to respond with physical or financial help for up to 72 hours. Communities will have to survive for at least two days without any outside assistance.* ■

** Information taken from the Central United States Earthquake Consortium.*

There are some ways to prepare yourself for an earthquake. Some things to have on hand for any emergency include:

- *Flashlights with spare batteries.* Keep a flashlight in the glove compartments of ambulances, at all nurses stations, at front desks, in physicians' offices, in physicians' medical bags and in all supply rooms in hospitals.
- *A portable radio with spare batteries.* Most telephones will be out of order or tied up for emergency purposes so radios will be your best source of information.
- *First aid kits.* Be sure all members of your staff have training in first aid and CPR.
- *Fire extinguishers.* Class ABC extinguishers are designed to use safely on any type of fire. Your fire department can demonstrate proper use.
- *Food.* It is always a practical idea to keep a supply of non-perishable food on hand which can be rotated into your diet and replenished on a regular basis. Have a sufficient supply of canned or dehydrated food, powdered milk and canned juices for at least 72 hours. Dried cereals and fruits and non-salted nuts are good sources of nutrition.
- *Water.* Should be stored in airtight containers and replaced about every six months. Store at least three gallons of water per person to be prepared for a 72-hour period. Also have purification tablets such as Halazone and Globaline, but read the label on the bottle before using tablets.
- *Tools.* Pipe wrench and crescent wrench — for turning off gas and water mains. It is important also to teach staff and family members how to turn off electricity, gas and water at main switch and valves. ■

ness or home preparedness. Some of the things that hospitals could do is to make information available on earthquake preparedness and to push for more people to have some kind of first aid training. An ideal situation, he says would be to provide some kind of advanced first aid training for every child in school.

"In areas vulnerable to earthquakes, health care facilities have been lacking in having their own disaster plans," Coe says. "The number one reason why hospitals haven't done disaster planning? The Joint Commission on Accreditation of Hospitals requires a disaster plan and you must use it twice a year, either in a drill or actual disaster. But it is only one of many guidelines. There is no guidance on what makes a good plan. And the plans are not evaluated."

It is important, then, Coe says, for more programs to give guidance to health care facilities on their disaster plans. For example, he notes that many planners may not realize the strain a disaster can place on existing personnel, facilities and other resources.

In a normal emergency situation, there would likely be ten health care workers to one victim. In a mass casualty situation, that ratio changes to one health care worker to one victim. But in a disaster situation, the ratio drops drastically to only one provider of care for every 1,000 victims. And that means that outside help is crucial.

"If you have a major earthquake, you cannot count on a close or neighboring town to help you," states Nuttli. "They will be as bad off as you are. Support has to come from a long way off."

One source of that support is the National Disaster Medical System (NDMS). The NDMS is a comprehensive medical system to provide acute care for mass casualties when the number and severity of casualties overwhelms local and state efforts to provide medical care. The NDMS is a cooperative effort of the Department of Health and Human Services, the Department of Defense, the Federal Emergency Management Agency, the Veterans Administration, state and local governments and the private sector. Its goal is to supplement, not replace, state and local disaster efforts in three ways.

First, it will provide an evacuation system comprised mainly of military aircraft to move patients quickly to any of the 71 urban areas where major health facilities are located. Scott Air Force Base in St. Louis is one of the Missouri-based facilities. Army Hospital in Kansas City and Fort Leavenworth, Kansas, are also participants.

Second, NDMS will provide approximately 150 disaster medical assistance teams (DMATS) throughout the nation ready to respond with equipment and supplies to provide on-the-scene aid, to help clear patients from the disaster scene and to help reassess and care for patients evacuated to any of the 71 receiving sites.

Third, it will provide hospitalization in a national network of hospitals that have voluntarily precommitted a total of 100,000 hospitals beds in the event of a massive disaster. The NDMS would be called into action by the President after the governor of a state requested federal assistance for medical aid.

But what can individual physicians do to be prepared for a major earthquake? As Dr. Nuttli says, "what you tell individuals, will apply even more to hospitals and doctors after an earthquake."

"Hospitals will have to remain operational, if possible, following an earthquake," he says.

To do that, Dr. Nuttli points out that it is crucial that hospitals plan now for the disaster. That includes looking for things that one might not first expect to pose a problem. Health care personnel should make sure that bookcases are strapped to the wall, television sets are situated so they won't land on patients' beds and heads, pictures are secured to the wall with more than just a tack or nail, blood supplies are strapped down in some way to prevent spillage, bottles are stored in cabinets with heavier ones on bottom and smaller ones on top, and I.V. stands are stabilized to prevent tubes being pulled from patients' arms. These are just a few of the simple things that can be done that are very important.

Another point that Dr. Nuttli makes is the fallibility of parking structures, especially those where ambulances are stored. It has been shown that in the event of a big quake, these facilities will collapse, destroying all ambulances stored inside. It would be better then, he says, to park all ambulances in an open area from which they may be dispatched after the earthquake occurs.

Another crucial point to remember is that in the event of an earthquake many of the things that we take for granted won't be available.

Electricity, for example, is one luxury that hospitals will have to do without. Stand-by generators will be necessary to keep machines in the building running, lights on and doctors working. Roads and highways will most likely be impassable and bridges will be down, making it impossible for ambulances to reach many areas. In some areas, runways may even be damaged, preventing airplanes from taking off. Gas lines will be damaged and water supplies will be endangered. In addition, vital commodities such as food and medical supplies will be in critically short supply.

Valerie A. Peters Photo

Dr. Otto W. Nuttli has been teaching at St. Louis University for 35 years. The geophysicist says he got involved in seismology because he "worried about what went on deep inside the center of the earth."

All of these tips can help if followed, but unfortunately they might not be enough to avoid the high number of casualties and other problems that an earthquake may cause. Education is one way that many scientists and researchers say that awareness can be increased.

Richard Moy, M.D., of Southern Illinois University in Springfield, Illinois, has done research on the subject of preparedness in the event of a major quake along the New Madrid Fault.

"My advice would be to have earthquake preparedness built into the school system, like (with) tornadoes," he says. "It should be required.

"Physicians also need to heighten their awareness for their safety," Moy continues. "They should go to their staff and say 'What if?' People will go to the hospital for care, the question is, will it be there to take care of them? It's not a popular subject."

One thing to remember is that during an earthquake, the direct cause of death or injury is seldom the actual movement of the ground. Most casualties result from falling objects and debris. Most injuries are caused by flying glass, light fixtures, ceiling plaster, falling bricks, overturned bookcases, furniture, appliances and fires from broken chimneys, broken gas lines and other causes not related to ground shaking.

Knowing that the next earthquake is a reality and not just speculation, it is hard to believe that most people in the state have refused to acknowledge the threat of a damaging earthquake. Ask residents in New Madrid what they plan to do in case of a big earthquake and they will likely tell you they really don't think about it that much. There is no real disaster planning in New Madrid and the residents don't see much need for it. As one citizen put it, "Around here, you just don't worry about earthquakes so much."

Stoever says he thinks that most people are aware of the possibilities, but just choose not to think about it.

"I think it is very much in people's consciousness, at least those people who read newspapers, listen to the radio and watch television," he says. "I just think people really don't like to think about it and really have no basis for realizing the magnitude of the calamity that might occur."

One area likely to be affected by a big earthquake has put forth the effort to get prepared. In Poplar Bluff, Missouri, the John J. Pershing VA Medical Center has adopted a Master Disaster Plan that encompasses several types of possible disasters, including an earthquake of damaging proportions. The plan involves specifying who will be in charge in the event that mass casualties are brought to the hospital; designating specific areas for the slightly injured, critically injured and fatally injured; providing a system of immediate classification of patients according to seriousness of injury; coordinating the use of available manpower, medication and supplies; and providing a general framework for hospital staff to follow when the earthquake does occur.

> "Around here, you just don't worry about earthquakes so much."
>
> **New Madrid resident**

"The plan gives you a basic idea as to what to do," says Gary McVey, chief engineer at the medical center. "It gives you some guidelines. Naturally, depending on what happens, you have to react the best that you can with what you've got. Thankfully, we've never had to go through any traumatic type of disaster here."

McVey says he thinks that disaster planning is something every community should take up among themselves. Having a plan and testing it is important if those

Methods for Measuring Earthquake Energy

The two generally recognized methods of measuring earthquakes are the Richter Magnitude Scale (RMS) and Modified Mercalli Intensity Scale (MMIS). Arabic numbers referring to magnitude are on the Richter scale while Roman numerals in terms of intensity refer to the MMIS. While the MMIS deals with the observed effects of an earthquake, the RMS relates to the amount of energy released in an earthquake.

The numbers of the RMS are on a logarithmic scale. Each unit increase in magnitude, for example from 5.0 to 6.0, translates to an approximate 30-fold increase in energy released. A Richter magnitude 8.0 earthquake is 900 times more energetic than a Richter magnitude 6.0 earthquake. A Richter magnitude 5.0 quake has an energy release that approximates that of the first atomic bomb.

A MMIS number II quake would mean that the quake was felt by a few persons at rest, especially on upper floors of buildings. Delicately suspended objects may swing. A MMIS number X quake would mean some well-built wooden structures would be destroyed. Most masonry and frame structures would be destroyed and the ground would be badly cracked. Landslides would be considerable from river banks and steep slopes. A MMIS XII quake would be an example of the worst possible event. Damage would be total. Waves would be seen on ground surfaces. Lines of sight and level would be distorted. Objects would be thrown upward in the air.

Remember: The Mercalli and Richter scales do not compare the same things. There is not a one-to-one relationship between them. Instead there are potential Richter ranges in which degrees of damage intensities could occur.

concerned want to survive.

"We have drills that we participate in with the community and we also activate our own internal drills, ever so often," he says. "We try to have those unannounced, so that it's a surprise for everybody, because that is the intent — to respond without knowing."

After the drills, McVey and the staff get together and decide what went wrong and what went right. This critique enables the staff to improve the disaster plan and keep it updated, which McVey says is the key to being prepared.

"You learn by each drill and that is the purpose of drills," he says, "to learn and improve, hopefully. But it is a difficult problem."

The VA hospital is also built to withstand a good amount of ground shaking.

"The VA has an earthquake standard that was formulated after the San Fernando Hospital in California," McVey says. "the building is built to stand."

Gerald Howard, Emergency Management Director in Sikeston, Missouri, conducts seminars and workshops in the area to try to make people more aware of the potential dangers of an earthquake.

"The biggest problem is trying to educate the people," Howard says. "Some say we take it for granted. We say it's going to happen, so we just go on about our daily life, which is good, but if you go into any of the homes here, you won't see anything strapped down or any sign of a disaster plan.

"You can sit here and talk about what you're going to do, but the old saying is that you don't know what you're going to do until you find out what the magnitude of the disaster is," Howard continues. "You have to plan for the worst and hope for the best. That's what we do."

Valerie A. Peters Photo

Gary McVey, chief engineer at the John J. Pershing VA Medical Center in Poplar Bluff says the hospital's disaster plan gives the staff general guidelines to follow in the event of a major earthquake. His master plan is one of the few being used in southeast Missouri.

Lloyd Miller, director of the Poplar Bluff Civil Defense, says that his department tries to educate the public on the possible consequences of a big quake.

"We try to give earthquake seminars to make the public aware that it could happen," he says. "Unfortunately, there really is not a whole lot that you *can* do. To prepare for an earthquake is very difficult. You just don't know which direction to go."

Miller admits that many people in his area share the same attitude as those in New Madrid.

"I think it's taken seriously, but I think it's shoved on the back burner, because it's something that nobody has ever seen in our lifetime," he says.

"It's important for people to be aware that it is going to happen," he continues. "We try to make people aware so that they won't panic. I believe panic will kill more people than an earthquake."

> "You have to plan for the worst and hope for the best. That's what we do."
>
> **Gerald Howard, Sikeston**

While panic is likely in the event of a big quake, the threat of mass casualties is even more so. A great earthquake might kill 3,000 people and destroy about $2.5 billion worth of property in Memphis alone, according to a worst-case assessment which the city of Memphis commissioned from a team of seismologists and consulting engineers. An additional $12 billion in property damage could be anticipated over wide areas of Tennessee, Missouri, Arkansas, Kentucky and Illinois.

Federal, state and local governments are planning now to meet the anticipated needs of those people affected by an earthquake. Since 1980, the Federal Emergency Management Agency has coordinated the planning for such an event with state and local governments throughout the Mississippi Valley area. The objectives of their efforts are to attempt to mitigate against the effects of a major earthquake, to inform citizens of its probability, and to be prepared to respond to meet the human needs of people affected.

Another organization whose goals are aimed at preparedness for another big quake, is the Central United States Earthquake Consortium (CUSEC). This organization encompasses the seven states which are most vulnerable to the effects of a "major" or "great" earthquake originating in the New Madrid Seismic Zone-Arkansas, Illinois, Indiana, Kentucky, Mississippi, Missouri, and Tennessee. The CUSEC states joined together to promote interstate earthquake preparedness coordination.

CUSEC is supported by Federal funding provided through the Federal Emergency Management Agency. Its mission is to develop an integrated plan for a mutually supportive member state response to any major New Madrid Seismic Zone earthquake; to make the citizens of the member sites aware of the New Madrid Seismic Zone's hazard potential; and to encourage mitigation measures such as anti-seismic building and construction codes and personal hazard-reduction practices.

The threat of another great earthquake along the New Madrid Fault is clear. What is not so clear is how to prepare for the inevitable. Because the people hit hardest by the earthquake will rely heavily on the medical community, physicians across Missouri must be prepared in the best way possible. ■

Human Immunodeficiency Virus (HIV) Antibody Seropositivity in the Greater Kansas City Area

S. Katherine Dietrich, Dale H. Giedinghagen, Gerald L. Hoff, Ph.D.,
and William L. Bayer, M.D.
Kansas City, Missouri

Serological data compiled by the Kansas City Health Department indicate that the majority of HIV antibody-positive individuals in that city are homosexual or bisexual men. To date, there are no indications that the virus has spread beyond the known risk groups in the Kansas City metropolitan area.

Although much has been written about human immunodeficiency virus (HIV) antibody prevalence in large urban areas on the east and west coasts, information from smaller communities in the central states is lacking. This report describes HIV antibody prevalence in the greater Kansas City metropolitan area, including Johnson and Wyandotte Counties in Kansas.

HIV antibody testing has been conducted in the metropolitan area since March, 1985. However, not all testing sites have operated continuously, and some testing has been conducted to determine HIV seropositivity among specific risk groups. For example, testing of intravenous drug abusers and prostitutes (male and female) was conduted on a voluntary basis in the Kansas City correctional system, while anonymous, voluntary testing was done at the Kansas City Health Department Sexually Transmitted Disease Clinic to obtain prevalence data. The Community Blood Center has conducted the greatest number of tests for the greatest length of time among all the metropolitan Kansas City testing sites.

Originally, all HIV antibody testing was conducted at blood collection centers. It soon became apparent that an alternative site testing program was necessary, however, to prevent an inordinate number of high-risk individuals from attempting to donate blood — attempts made solely to obtain the free HIV testing. Although the nature of the alternative site testing program has varied from site to site, and funding interruptions have affected continuity at each site, at least one site has been operative at any given time in the metropolitan Kansas City area.

At all testing sites, under all protocols, a positive test was defined as a twice-reactive enzyme-linked immunosorbent assay (ELISA) test with an optical density of at least 4, followed by a positive Western Blot test. Prior to June 1985, however, ELISA-reactive sera were not routinely subjected to Western Blot confirmatory testing. In retrospect, this policy did not seem to have any real effect on the final number of positive tests, compared with the number obtained following routine Western Blot confirmation.

The HIV seropositivity rates in the metropolitan

Table

HIV Positivity in Kansas City, MO

Site	*#Tested*	*#Positive*	*%Positive*
KC STD Clinic			
Heterosexual men & women	300	2	0.6
Homosexual men	300	103	34.3
Total	600	105	17.5
Community Blood Center			
Blood donors	83,000	21	0.02
City Correctional System			
Males			
IVDA*	29	0	0
Prostitute	7	0	0
IVDA and Prostitute	3	2	66.6
Total Males	39	2	5.1
Females			
IVDA	5	0	0
Prostitute	14	0	0
IVDA and Prostitute	16	0	0
Total Females	25	0	0
Alternate Test Sites			
Site #1 — KCMO	211	44	20.8
Jackson Co., Mo.	275	58	21.0
Johnson Co., Ks.	254	40	15.7
K.C. Free Clinic			
Male	464	85	18.3
Female	121	1	0.8
Total	1,325	211	15.9

* IVDA — Intravenous drug abuser

Kansas City area are given in the Table. Homosexual or bisexual men, who may or may not also be intravenous drug abusers, constituted 98% of the seropositive individuals at the Sexually Transmitted Disease Clinic, alternative sites, and in the correctional system. It should be noted that although the majority of persons tested at the alternative sites were homosexual or bisexual men, complete data on sexual orientation, drug use, and history of prostitution were not available from all testing sites.

All 21 seropositive individuals recorded at the Community Blood Center were members of high-risk groups and would have deferred themselves as blood donors. All blood that tests positive for HIV antibody is discarded by the blood center. A new policy recently instituted allows HIV antibody-positive individuals to designate their donated blood for "experimental use only." This assignation is done confidentially.

The serological data suggest that viral penetration in Kansas City is confined primarily to the homosexual/bisexual population with little, if any, spread outside this group. As of August 14, 1987, Kansas City had recorded a cumulative total of 112 cases of AIDS (39% of Missouri cases), the highest case count in the state. Ninety-two percent of these cases were in homosexual/bisexual men, who may or may not have been intravenous drug abusers. Thus, the serological data support actual case findings. Whether or not this observation will remain constant will depend in part upon the effectiveness of local "safe sex" education and other risk reduction efforts. Certainly these results are a signal to intensify and concentrate efforts rather than to be complacent with the status quo.

The Authors

S. KATHERINE DIETRICH
DALE H. GIEDINGHAGEN
GERALD L. HOFF, Ph.D.
WILLIAM L. BAYER, M.D.

Ms. Dietrich, Mr. Giedinghagen and Dr. Hoff are from the Division of Communicable Disease Control, Kansas City Health Department. Dr. Bayer is from the Community Blood Center of Greater Kansas City.

The authors acknowledge Ingrid Denny, Missouri Department of Health; Karen Tappan, Kansas Department of Health and Environment; and Randy Gould, Kansas City Free Health Clinic, for the use of their data.

Reprints

S. Katherine Dietrich
Kansas City Department of Health
1423 E. Linwood Boulevard
Kansas City, Missouri 64109

Coronary Artery Bypass Grafting in the Elderly

Experience in a Community Hospital

Robert M. Doroghazi, M.D., James S. Carter, M.D., Nancy L. Doroghazi, M.S.N., Kay Klinkenborg, B.A., Charles W. Barbee, M.D., and John A. Crouch, M.D.
Columbia, Missouri

Noting the relative lack of information from community hospitals, the authors report on results of coronary artery bypass procedures in elderly patients at their hospital. Their community-based findings compare favorably with more widely reported results from university-associated medical centers.

Coronary artery bypass grafting (CABG) is widely performed in both university and community hospitals. Most information, however, on the results of CABG emanates from university-academic centers, with only occasional reports describing results in community hospitals.[1-8] University centers have documented a continued improvement in surgical results, with operative mortality falling from 2%-12% in the early 1970s[9] to 1%-2% or less currently. It is not known if a similar improvement in results has occurred in community hospitals. Thus it would be important to demonstrate that CABG can be performed in community hospitals with results similar to those reported from university centers.

More elderly patients are undergoing CABG. A variety of factors, including the general improvement in results of open heart surgery and the increasing numbers and vigor of the elderly population, have resulted in more frequent surgical intervention in this high-risk group.

We report our experience with 202 consecutive patients 70 years of age or older who underwent CABG at a non-university community hospital from 1978 through 1983.

Methods

Two hundred and two consecutive patients aged 70 years or older were studied retrospectively. All had undergone isolated coronary artery bypass grafting at Boone Hospital Center, Columbia, Mo., since the initiation of the cardiac surgery program in October, 1978, through March, 1983. One patient, for whom cineangiograms were unavailable for analysis, was excluded. This patient was a hospital and long-term survivor of the procedure.

All preoperative and postoperative care was supplied by a team of cardiologists and cardiac surgeons in full-time private practice. No medical or surgical residents participated in the patients' care.

Previous myocardial infarction was diagnosed by a history of documented myocardial infarction or definite Q waves on electrocardiogram. Stable angina pectoris was classified according to the New York Heart Association classifications of functional capacity. Unstable angina pectoris was defined as either a changing pattern of effort angina or rest angina.

Coronary arteriography was performed by the brachial or femoral approach. Coronary stenosis was graded by the following method: 0 = none (normal vessel), 1 = less than 25% narrowing, 2 = 25%-49% narrowing, 3 = 50%-74% narrowing, 4 = 75%-99% narrowing, 5 = total occlusion. A weighted score was determined for the coronary arteries, with 0 representing no lesions and 15 representing complete occlusion of all three coronary arteries. Coronary artery stenosis of at least 50% of the luminal diameter in any

Table 1

Perioperative Mortality: Clinical Characteristics and Cause of Death

Patient number	*Age/Sex*	*Weighted coronary artery score*	*Ejection fraction (%)*	*Number of bypasses*	*Cause(s) of death*
45	72/F	12	49	4	Cerebrovascular accident
48	70/M	14	57	3	MI, cardiogenic shock
59	72/M	12 with 50%-74% left main obstruction	64	4	Unable to wean from bypass
72	76/F	12	66	5	MI, cardiogenic shock
75	70/M	9	56	1	Bleeding, hypotension
76	75/M	13	69	4	Cerebrovascular accident, respiratory failure
133	73/M	11	64	3	Adult respiratory distress syndrome, sepsis
134	72/F	13	52	3	Renal failure, respiratory failure, bowel infarct
165	78/F	9	52	2	Ventricular rupture
Mean	73 yrs	11.3	58	3.2	

M = male, F = female, MI = myocardial infarction

view was considered significant. Occlusion of large diagonal and marginal branches was considered to be due to lesions of the left anterior descending and circumflex vessels, respectively.

The left ventricular end-diastolic pressure was measured before angiography. Ejection fraction was measured in single plane exposure by the area-length method.

Left ventricular wall motion abnormalities were assessed from the 30° right anterior oblique view, in which the cardiac silhouette was divided into four segments. Motion in each segment was graded from 0-4: 0 = normal, 1 = slightly hypokinetic, 2 = moderately hypokinetic, 3 = akinetic, 4 = dyskinetic. The overall wall motion score was determined by adding the values for each segment; thus, a combined score of 0 indicated normal ventricular wall motion.

The indications for surgical intervention included stable or unstable angina pectoris, evolving myocardial infarction, shock, or coronary artery anatomy. The indications for surgical intervention were not standardized and were determined solely by the patient's private physician.

Individual saphenous vein grafts, sequential vein grafts and internal mammary artery grafts were used. Coronary artery endarterectomy was also performed in some patients. Surgery was performed in all patients under moderate systemic hypothermia, using cold potassium cardioplegia.

Follow-up was performed by direct mail survey or by telephone over a closing period of November 1983 through January 1984.

Differences between groups were ascertained using a one-way analysis of variance. Probability (p) values less than 0.05 were considered significant.

Results

There were 140 men and 62 women. The age range was 70 through 86 years with a mean age of 73.7 years. One hundred and forty patients were 70-74, 54 patients were age 75-79, and 8 patients were age 80-86 years.

Ninety patients (45%) had had at least one previous myocardial infarction. One hundred and forty-six patients (72%) had a history of stable angina and 174 patients (86%) had a history of unstable angina.

One hundred and fifty-two patients (75%) had three-vessel disease, 40 patients (20%) had two-vessel disease and 10 patients (5%) had single-vessel disease. Fifty-seven patients (28%) had left main coronary artery disease. In 32 patients (16%), the obstruction of the left main coronary artery was 50%-74% and 25 patients (12%) had 75%-99% obstruction of the left main coronary artery. The mean weighted coronary artery score was 11.8.

The pre-angiographic left ventricular end-diastolic pressure was 20 mmHg in 32 patients (16%). The ejection fraction was less than 35% in 12 patients (6%) and 35% to 50% in 30 patients (15%). The mean left ventricular ejection fraction was 56%. The mean overall wall motion score was 3.6.

An average of 3.3 distal anastomoses were placed per patient. One patient had seven distal anastomoses; six patients had six distal anastomoses; 12 patients had five distal anastomoses; 69 patients had four distal anastomoses; 79 patients had three distal anastomoses; 25 patients had two distal anastomoses; and 10 patients had one distal anastomosis. The mean duration of cardiopulmonary bypass was 135.3 minutes.

Table 2

Perioperative Complications

Complication	*Within 24 hrs of surgery*	*Later than 24 hrs after surgery*	*Total*	*Percent of total patients*
Ventricular tachycardia/ventricular fibrillation	2	4	6	3
Hypotension requiring vasopressors	11	6	17	8
Renal failure requiring dialysis	0	2	2	1
Neurologic deficit	2	2	4	2
Respiratory failure	0	7	7	3
Bleeding and/or pericardial tamponade requiring reoperation	6	5	11	5
Myocardial infarction	4	4	8	4

There were nine hospital deaths (4.4% mortality). There were only three deaths (2.4% mortality) among the last 126 patients. The mortality was 6.4% in women and 3.6% in men (p = NS). The clinical characteristics and causes of death in these nine patients are outlined in Table 1. There was no significant difference in age, weighted coronary artery score or ejection fraction in these nine patients as compared to hospital survivors. The other perioperative complications are listed in Table 2.

The mean duration of hospital stay after operation was 13.99 days. In 69% of patients, the duration of hospital stay after operation was 12 days or less.

Follow-up data were obtained in 201 (99.5%) of the 202 patients. The only patient lost to follow-up was a foreign national. The mean follow-up period was 29.5 months (range six-62 months).

At the time of follow-up, 180 of the 193 patients discharged from the hospital were alive (late survival = 93%) (Table 3). The average annual mortality during the follow-up period was 2.8%. There was no significant difference in age, sex or weighted coronary artery score in patients who died during follow-up, compared with long-term survivors. The difference in ventricular function as estimated by ejection fraction between these two groups approached but did not attain statistical significance (p = .13). One patient was lost to follow-up and is included in the patients who died of cardiac causes. Of the late deaths, two patients died of congestive heart failure, one patient died suddenly, and five patients died of other documented causes. In four patients the cause of death was unknown; these patients are considered to have died of cardiac causes. Thus, nine of the 13 late deaths were of definite or possible cardiac causes.

In the follow-up period, one patient required repeat coronary artery bypass grafting for unstable angina 37 months after her initial bypass. Four patients suffered a myocardial infarction during follow-up. Four other patients had Class III or Class IV angina pectoris. The remaining 171 patients (95%) had remained angina-free or minimally symptomatic at the time of follow-up.

Discussion

Our data reveal that coronary artery bypass grafting can be undertaken in patients 70 years of age or older with low morbidity and mortality. The good initial results were maintained on long-term follow-up. These data were obtained in a non-university community hospital and are similar to those reported from university centers.[10-21]

The principal indications for surgical intervention in our patients were angina pectoris of an unstable nature or refractory to medical therapy, and significant obstruction of the left main coronary artery. These are also the same general indications for undertaking surgery in younger patients.[22, 23] This suggests that in elderly patients who are otherwise reasonable surgical candidates, coronary artery bypass grafting can be performed for the same general indications as in a younger patient population.

These elderly patients who underwent CABG represent a highly selected group with severe anginal symptoms, widespread coronary artery disease, and a high incidence of previous myocardial infarction and compromised left ventricular function. Other studies have also reported similar patient characteristics with a high incidence of severe anginal symptoms,[3, 4, 11, 13, 15-17, 19, 21] left main coronary obstruction,[13, 17, 21] and compromised left ventricular function.[13, 16, 17] Several studies, which compared older patients directly with a younger population, showed that older patients undergoing CABG are "sicker" than their younger counterparts.[13, 17] A recent report, evaluating a non-randomized group of patients 65 years of age and older, suggests that "high-risk" patients such as these (i.e., a high incidence of severe anginal symptoms, compromised left ventricular function, and left main coronary artery disease) appear to show improved survival and symptoms when undergoing surgical therapy, as compared with those having medical therapy.[24] These data, along with our low short- and long-term morbidity and mortality, appear to justify consideration of surgical intervention in such "high-risk" elderly patients.

Table 3

Late Mortality: Clinical Characteristics and Cause of Death

Patient number	*Age/Sex*	*Weighted coronary artery score*	*Ejection fraction (%)*	*Cause of death*
4	70/M	12	—	Other
9	74/M	12 with 50%-74% left main obstruction	75	Other
11	77/F	10	61	Congestive heart failure
21	70/M	14	65	Unknown — presumed cardiac
23	71/F	12	52	Unknown — presumed cardiac
31	76/F	9	64	Unknown — presumed cardiac
35	75/M	13	38	Unknown — presumed cardiac
39	71/F	14	46	Other
49	84/M	13 with 75%-99% left main obstruction	45	Sudden death
51	71/M	13	28	Congestive heart failure
56	71/M	13	49	Lost to follow-up
74	74/M	15	50	Other
111	70/M	13	68	Other
Mean	73.4 yrs	12.5	53.4	

The mortality of coronary artery bypass grafting in the elderly has been reported to range from 0%-21%.[1-3, 10, 11, 13-17, 19-21, 25-28] A more reasonable estimate, however, is a 4%-6% hospital mortality, as reported in several larger, more recent studies.[17, 21] Our hospital mortality of 4.4% (decreasing to 2.4% over the last 126 patients) is within this range. When compared with survivors, patients who died in the hospital did not differ in age, sex, incidence of left main coronary artery obstruction, ventricular function as estimated by ejection fraction, or severity of coronary disease as estimated by the weighted coronary artery score. Variables previously shown to be associated with increased hospital mortality following CABG include female sex,[19, 29, 30] depressed left ventricular function,[17, 29] greater number of diseased vessels,[29] obstruction of the left main coronary artery,[31-34] and, of course, increasing age.[13, 15, 17, 19, 28, 29]

Morbidity following CABG is higher in the elderly, compared with younger patients.[13] Possible reasons for this include a higher incidence of multiple chronic medical problems,[35] the fact that elderly patients tend to be "sicker" than younger patients, and other unidentifiable factors that may be related to age. Of the non-fatal complications, cerebrovascular accident is probably associated with the greatest long-term impact. In our series, 2% of patients developed a permanent neurological deficit. Cross-clamping of a severely atherosclerotic ascending aorta[13] and atherosclerosis of extracranial and intracranial vessels may be especially important in this regard.

The duration of postoperative hospital stay is longer in the elderly as compared with younger patients,[2, 13, 15, 17] ranging from a mean of 11 to 18.4 days.[2, 12-15, 17] However, the authors of the Coronary Artery Surgery Study point out that the actual difference in days is small and the economic impact probably minor.[17] In 69% of our patients, the length of postoperative stay was 12 days or less, and the mean duration of postoperative stay in all patients was 13.99 days.

Long-term follow-up was available in a high percentage of patients (99.5%) and of good duration (mean 29.5 months). Symptomatic results at follow-up were excellent. Ninety-five percent of hospital survivors had remained asymptomatic or only minimally symptomatic and only one patient had required repeat coronary artery bypass grafting. Other studies also reveal excellent long-term symptomatic results after coronary artery bypass grafting in elderly patients.[1, 3, 4, 12, 13, 15, 16, 18, 21, 24, 25] These good symptomatic results, however, may be related at least in part to lower levels of activity in older patients.

There were 191,000 coronary artery bypass operations reported in 1983 to the National Hospital Discharge Survey of the National Center for Health Care Statistics. Although the exact percentage of those operations performed outside the university-academic setting is unknown, it is probably significant. Little data, however, are available regarding the results of

CABG in non-university community hospitals.[1-8] It is not known if the general and continued improvement in results of cardiac surgery reported from university-academic centers over the last decade has also occurred in the non-university community setting. It would thus be important to demonstrate that CABG can be performed in non-university community hospitals with results similar to those reported from university centers. In our experience, CABG performed in the elderly in a non-university community hospital produced results similar to those reported from university-academic centers. However, we do not suggest that these findings apply to all hospital settings, especially considering the published recommendations on suggested minimum number of procedures necessary to achieve optimal results.[36]

References

1. Tucker BL, Lindesmith GG, Stiles QR, et al: Myocardial revascularization in patients 70 years of age and older. *West J Med* 1977;126:179-183.
2. La Follette L, Jacobson LB, Hill JD: Isolated aortocoronary bypass operations in patients over 70 years of age: A comparison with results in patients 50 to 59 years old. *West J Med* 1980;133:15-18.
3. Berry BE, Acree PW, David DJ, et al: Coronary artery bypass operation in septuagenarians. *Ann Thorac Surg* 1981;31:310-313.
4. Richardson JV, Cyrus RJ: Elective coronary artery bypass in the elderly: Experience in a community hospital. *Southern Med J* 1984;77:30-32.
5. Forker AD, Reese HE, Weaver WF, et al: Results of elective aortocoronary saphenous vein graft surgery in a community hospital. *Circ* 1974;49:334-337.
6. Horsley BL, Cox WD, Schmitt EH III, et al: Is coronary artery bypass in the community hospital justifiable? *American Surgeon* 1977;43:372-376.
7. Cyrus RJ, Richardson JV: Coronary artery bypass grafting: Early and late results in an Alabama community hospital. *Alabama Med* 1984;53:16-19.
8. Steinzeig SM, Bichlmeier FG, Toalson WB, et al: Practical coronary surgery: Its place in the community hospital. *J Kan Med Soc* 1973;74:411-417.
9. Mundth ED, Austen WG: Surgical measures for coronary heart disease. *NEJM* 1975;293:13-19.
10. Smith JM, Lindsay WG, Lillihei RC, et al: Cardiac surgery in geriatric patients. *Surgery* 1976;80:443-448.
11. Gann D, Colin C, Hildner FJ, et al: Coronary artery bypass surgery in patients seventy years of age and older. *J Thorac Cardiovasc Surg* 1977;73:237-241.
12. Du Cailar C, Chaitman BR, Castonguay Y: Risks and benefits of aortocoronary bypass surgery in patients aged 65 years or more. *Can Med Assoc J* 1980;122:771-779.
13. Knapp WS, Douglas JS Jr, Craver JM, et al: Efficacy of coronary artery bypass grafting in elderly patients with coronary artery disease. *Am J Cardiol* 1981;47:923-930.
14. Higginbothom M, Hunt D, White A, et al: Surgical treatment of angina pectoris in the elderly. *Med J Aust* 1981;2:664-666.
15. Hochberg MS, Levine FH, Daggett WM, et al: Isolated coronary artery bypass grafting in patients 70 years of age and older: Early and late results. *J Thorac Cardiovasc Surg* 1982;84:219-223.
16. Hibler BA, Wright JO, Wright CB, et al: Coronary artery bypass surgery in the elderly. *Arch Surg* 1983;118:402-404.
17. Gersh BJ, Kronmal RA, Frye RL, et al: Coronary arteriography and coronary artery bypass surgery: Morbidity and mortality in patients ages 65 years or older: A report from the Coronary Artery Surgery Study. *Circ* 1983;67:483-491.
18. Gersh BJ, Kronmal RA, Schaff HV, et al: Long-term (five year) results of coronary bypass surgery in patients 65 years old or older: A report from the Coronary Artery Surgery Study. *Circ* 68 (suppl 2), 1983;II-190-199.
19. Faro RS, Golden MD, Javid H, et al: Coronary revascularization in septuagenarians. *J Thorac Cardiovasc Surg* 1983;86:616-620.
20. Mammana RB, Icenogle T, Copeland JG, et al: Successful coronary artery bypass surgery in the elderly. *Arizona Med* 1983;40:13-15.
21. Elayda MA, Hall RJ, Gray AG, et al: Coronary revascularization in the elderly patient. *J Amer Coll Cardiol* 1984;3:1398-1402.
22. Rahimtoola SH: Coronary bypass surgery for chronic angina — 1981. *Circ* 1981;65:225-241.
23. CASS Principal Investigators, et al: Coronary Artery Surgery Study (CASS): A randomized trial of coronary artery bypass surgery. Survival data. *Circ* 1983;68:939-950.
24. Gersh BJ, Kronmal RA, Schaff HV, et al: Comparison of coronary artery bypass surgery and medical therapy in patients 65 years of age or older: A nonrandomized study from the Coronary Artery Surgery Study (CASS) Registry. *NEJM* 1985;313:217-224.
25. Ashor GW, Meyer BW, Lindesmith GG, et al: Coronary artery disease: Surgery in 100 patients 65 years of age and older. *Arch Surg* 1973;107:30-33.
26. Barnhorst DA, Giuliani ER, Pluth JR, et al: Open-heart surgery in patients more than 65 years old. *Ann Thorac Surg* 1974;18:81-90.
27. Stephenson LW, Mac Vaugh H III, Edmunds LH Jr: Surgery using cardiopulmonary bypass in the elderly. Circ 1978;58:250-254.
28. Kirklin JW, Kouchoukos NT, Blackstone EH, et al: Research related to surgical treatment of coronary artery disease. *Circ* 1979;60:1613-1618.
29. Kennedy JW, Kaiser GC, Fisher LD, et al: Clinical and angiographic predictors of operative mortality from the collaborative study in coronary artery surgery (CASS). *Circ* 1981;63:793-802.
30. Bolooki H, Vargas A, Green R, et al: Results of direct coronary artery surgery in women. *J Thorac Cardiovasc Surg* 1975;69:271-277.
31. Takardo T, Hultgren HN, Lipton MJ, et al: The VA cooperative randomized study of surgery for coronary arterial occlusive disease. II. Subgroup with significant left main lesions. *Circ* 54 (suppl III), 1976;III-107-117.
32. Loop FD, Lytle BW, Cosgrove DM, et al: Atherosclerosis of the left main coronary artery: five year results of surgical treatment. *Am J Cardiol* 1979;44:195-201.
33. Chaitman BR, Rogers WJ, Davis K, et al: Operative risk factors in patients with left main coronary-artery disease. *NEJM* 1980;303:953-957.
34. Jones EL, King SB III, Craver JM, et al: The spectrum of left main coronary artery disease: Variables affecting patient selection, management, and death. *J Thorac Cardiovasc Surg* 1980;79:109-116.
35. Kovar MG: Elderly people: The population 65 and over, in *Health: United States 1976-1977.* DHEW Publ No. HRA 77-1232. Washington DC, US Govt Print Off, 1977.
36. Kennedy RH, Kennedy MA, Frye RL, et al: Cardiac-catheterization and cardiac-surgical facilities: Use, trends and future requirements. *NEJM* 1982;307:986-993.

The Authors

ROBERT M. DOROGHAZI, M.D.
JAMES S. CARTER, M.D.
NANCY L. DOROGHAZI, M.S.N.
KAY KLINKENBORG, B.A.
CHARLES W. BARBEE, M.D.
JOHN A. CROUCH, M.D.

The authors are from the sections of cardiology and cardiovascular surgery, Boone Clinic, and the Missouri Heart Institute, Columbia, Missouri.

The authors acknowledge the assistance of Robert Roberts, M.D., Baylor College of Medicine, Houston, Texas, and Mark Ellersieck, Ph.D., University of Missouri-Columbia.

Reprints

Robert M. Doroghazi, M.D.
Boone Clinic
401 Keene Street
Columbia, Missouri 65201

The Health Insurance Experience and Status of Missouri Renal Transplant Recipients

The Scientific Advisory Board*
National Kidney Foundation of Eastern Missouri
and Metro East, Inc.

As renal transplantation becomes a more commmonplace procedure, scores of end-stage renal disease patients are able to lead extended, more productive lives. This report centers on these patients' ability to maintain health insurance coverage before and after transplantation. It points out problems with post-transplant insurability, even as long-term survival rates increase.

Although the principal objective of Public Law 92-603 (1972) was to ensure universal access to maintenance therapy for individuals with end-stage renal disease (ESRD), an assumption implicit in this legislation was that these persons would generally be rehabilitated to their premorbid levels of individual and social functioning and economic productivity.[1] While neither chronic dialysis nor renal transplantation has fully attained this promise, transplantation has more typically been associated with longer patient survival, more frequent vocational rehabilitation, and greater personal life satisfaction.[2-8] However, the extent to which positive outcomes from a successful renal transplant are reflected in the health insurance experience of recipients has not been previously investigated.

We conducted a cross-sectional study to determine the current health insurance status of a statewide sample of renal transplant recipients. The study also examined the difficulties presumed to have been encountered by these individuals in maintaining insurance coverage throughout the course of their illness or in obtaining new coverage after transplantation.

Materials and Methods

We developed a 22-item factual questionnaire to determine the health insurance experience and status of renal transplant recipients within Missouri. Questions on the recipients' sociodemographic and economic characteristics were also included in the survey instrument. The questionnaire was examined for content validity by a panel of transplant surgeons, nephrologists, nurses, social workers, transplant recipients, and health service researchers. They provided specific comments on the instrument's clarity, comprehensiveness, specificity, and ease of completion. All modifications suggested by the panel were subsequently incorporated into the questionnaire's design.

---

*Wendy W. Brown, M.D. (Chairperson), Marc D. Smith, Ph.D. (Study Director), Les Spry, M.D., (Secretary), Theresa E. Anderson, R.N., John E. Buerkert, M.D., Kathleen M. Carney, PA-C, James A. Delmez, M.D., Douglass T. Domoto, M.D., L. Lee Hamm, M.D., Lynette Lewis, R.N., Robin J. Linderer, R.N., Robert E. Lynch, M.D., Ph.D., Ruth R. Marion, A.C.S.W., Paul Mennes, M.D., Patricia Minard, R.N., Joan Nitz, R.N., Kathryn Norwood, M.S., R.D., Humayun Quadir, M.D., David Rose, M.D., Marcos Rothstein, M.D., Deborah Shayman, M.S.W., Gregorio A. Sicard, M.D., Vinchien Sinsakul, M.D., Vicky J.Stringer, M.S.W., Denise Tumulty, R.N., David W. Windus, M.D., Trudy Wright, R.N., Sue Caine (ex-officio), Dean F. Kappel, M.S.W. (ex-officio), Mary E. Lee (ex-officio), and Gail Muether (ex-officio).

A sampling frame of the 583 *living* Missouri residents who had received cadaveric or living-related renal transplants since 1965 was compiled by the Missouri Kidney Program. The questionnaire, accompanied by a self-addressed stamped envelope, was mailed to each of the recipients. In addition, a cover letter delineating the objectives of the study and assuring the respondents' anonymity was also included. The limited resources available to support this project precluded the follow-up of nonrespondents.

Appropriate descriptive measures have been employed to report the frequency data. The analysis of categorical data has been accomplished through the application of the chi-square test for statistical independence.[9] It should be noted that while usable information was received from 321 respondents, several of the analyses included in this report are based on slightly fewer responses because isolated individuals did not answer certain questions.

Results

The sampling frame for the study consisted of 583 renal transplant recipients, 321 (55.1%) of whom completed the survey instrument. As indicated in Table 1, the median age of the respondents at the time of their most recent transplant was 35 years (Range = 6-63 years), while their median age at the time of the study was 39 years (Range = 9-67 years). A majority of the respondents were white (80.9%), male (60.0%), married (62.8%), cadaveric kidney recipients (55.5%), and resided in communities of 20,000 persons or fewer (51.5%). Furthermore, 60.4% of the respondents received their initial transplant during the period 1980-1985. The age, race, and sex characteristics of the study sample did not differ significantly (± 2.0%) from those of the total population of Missouri transplant recipients.[10]

Prior to being diagnosed with ESRD, 68.5% of the respondents were employed full-time; however, only 32.1% of the recipients worked 20 hours or more per week while receiving maintenance dialysis during the interval between diagnosis and transplantation. After transplantation, 38.9% were *continously* employed full-time, while 42.1% were full-time employees at the time the study was conducted (Table 2).

The majority of the recipients (57.2%) reported annual family incomes of $20,000 or less (Table 2). An additional 25.0% indicated their annual family income was between $20,001 and $30,000. Only 17.8% reported incomes exceeding $30,000 per year.

A substantial minority of the respondents (44.5%) derived income from their personal full- or part-time employment, and 45.2% indicated the employment of their spouse or other member of the immediate family to be a regular source of income. As indicated in Table 2, other sources of income were distributed among an array of public and private programs.

Of the 243 (75.7%) respondents whose health care costs were at least partially covered by private or public programs prior to their initial transplant, 31 (12.8%) lost coverage before receiving the transplant. The recipients reported that health insurance coverage was most typically lost because their uremic symptoms precluded continued employment (83.9%). The failure to pay the necessary premiums and the loss of coverage precipitated by the spouse's unemployment were the reasons provided for the loss of health insurance by the remaining 16.1% of the 31 respondents.

Table 1

Demographic Characteristics

Characteristic	*Transplant Recipients (n=321)*
Age (Years):	
Median at Transplant	35
Range at Transplant	6-63
Median at Present	39
Range at Present	9-67
Race (%):	
White	80.9
Black	18.2
Hispanic	0.9
Sex (%):	
Male	60.0
Female	40.0
Current Marital Status (%):	
Never Married	18.4
Married	62.8
Separated	3.8
Divorced	13.1
Widowed	1.9
Size of Residental Community (%):	
≤ 5,000 persons	28.5
5,000-20,000 persons	23.0
20,001-50,000 persons	15.2
50,001-100,000 persons	7.8
> 100,000 persons	25.6

Currently, 70.7% of the transplant recipients receive health insurance benefits through private plans, while 61.4% and 12.1% are covered by Medicare and Medicaid, respectively (Table 3). Only 5.9% of the respondents indicated that they had no third-party coverage for personal health care expenses. Of the 227 recipients who were privately insured, 85.1% were members of group health plans, and 14.9% had individual coverage. The majority of those with private insurance (72.2%) reported annual premiums of $1,000 or less, while an additional 17.1% indicated that their premiums were between $1,001 and $2,000 per year. It should be noted, however, that 10.8% of the privately insured respondents reported that their annual premium for health insurance exceeded $2,000.

Finally, among the 294 recipients who responded to the instrument's final question on their attempts to obtain coverage, 78 (26.5%) indicated that they had been refused health insurance coverage at least once following the transplantation. Although the refusal of coverage was not statistically associated ($p > 0.05$) with the recipient's age, race, sex, marital status, or geographic location, it was correlated with the recip-

Table 2

Economic Characteristics

Characteristic	% Transplant Recipients Total (n = 321)	 Refused Insurance (n = 78)
Full-Time Employment:*		
Prior to ESRD Diagnosis	68.5	26.0
While on Dialysis	32.1	22.8
Continuously Since Transplant	38.9	25.6
Currently	42.1	23.4
Current Annual Family Income:		
≤ $5,000	13.5	52.9
$5,001-$10,000	18.4	28.8
$10,001-$20,000	25.3	29.3
$20,001-$30,000	25.0	14.9
$30,001-$50,000	12.2	20.0
> $50,000	5.6	15.4
Current Sources of Family Income:*		
Personal Employment	44.5	23.3
Family Member's Employment	45.2	21.2
Private Pension	7.5	13.0
VA Pension	6.9	38.1
Social Security Retirement	14.0	17.1
Social Security Income (SSI)	11.8	35.3
Social Security Disability (SSD)	15.9	37.8
Aid to Families with Dependent Children (AFDC)	1.2	100.0
Food Stamps	4.4	30.0

*The categories are not mutually exclusive; therefore, the totals exceed 100%.

ient's family income [χ^2 (5) = 19.387, p = 0.002], the type of private coverage they maintain [χ^2 (1) = 4.791, p = 0.029], and the elapsed time since transplantation [χ^2 (6) = 13.19, p = 0.040]. Thus, for example, individuals whose annual family income was $20,000 or less, those who were not eligible to participate in a group plan, and those who had received transplants prior to 1980 were significantly more likely to have been refused private health insurance.

Table 3

Characteristics of Health Insurance Coverage

Characteristic	% Transplant Recipients
Current Coverage (n = 321):*	
Medicare	61.4
Medicaid	12.1
Private Insurance	70.7
No Insurance	5.9
Type of Private Coverage (n = 227):	
Group	85.1
Individual	14.9
Annual Premium for Private Coverage (n = 227):	
≤ $500	37.5
$501-$1,000	34.7
$1,001-$1,500	10.8
$1,501-$2,000	6.3
> $2,000	10.8

* The categories are not mutually exclusive; therefore, the total exceeds 100%.

Discussion

The data developed in this study indicated that 75.7% of the 321 recipients had public and/or private health insurance coverage prior to their initial transplant and that only 12.8% of these 243 individuals lost coverage during the course of treatment or subsequent to transplantation. Furthermore, only 5.9% of the respondents reported that they had no third-party coverage for personal health care expenses at the time the survey was conducted.

Despite the greater prevalence of health insurance coverage among these individuals than among the general population,[11] several concerns persist. In excess of 26.0% of the recipients reported that health insurance coverage had been refused at least once subsequent to transplantation, thus suggesting that while coverage is available, it may not be readily accessible, particularly for individuals whose family income is $20,000 or less, for those who are not enrolled in a group insurance plan, or for those whose renal transplant was performed more than five years ago.

The latter factor is especially disturbing since long-term survival (greater than five years) with a renal transplant would be expected to be associated with increased, rather than decreased, insurability. If as we suspect, this observation reflects, at least partially, the discontinuation of Medicare coverage three years following transplantation, an increasing number of recipients are likely to experience difficulties obtaining or maintaining health insurance. Furthermore, those who are covered under their spouse's group insurance plan will generally be denied full coverage (because of their pre-existing condition) if the spouse changes employment.

Second, 27.9% of the recipients indicated that their annual health insurance premium was more than $1,000, and 10.8% stated that their premium exceeded $2,000 per year; however, the extent of service coverage could not be determined. Especially among the patients in this investigation, a substantial majority (82.2%) of whom have annual family incomes of $30,000 or less, such premiums may constitute a significant financial burden.

Finally, although not investigated in this study, questions regarding the adequacy of health insurance coverage for renal transplant recipients remain to be examined. In addition, the extent to which recipients may be unable to secure employment because of the restrictions imposed by some employer-sponsored health insurance plans deserves further study.

Although our sample was comparable to the statewide population of renal transplant recipients on several significant demographic variables, the results cannot necessarily be extended to the national population of recipients. It is encouraging, however, that the preponderance of those included in this investigation have at least minimal health insurance coverage obtained at a cost comparable to that for the general public. We believe, however, that those individuals without coverage merit further attention from third-party intermediaries by inclusion in either a public entitlement program or a risk pool created by private or quasi-governmental health insurance carriers.

References

1. Smith MD, Purnell PP, Hong BA, et al: The quality of maintenance therapy for end-stage renal disease: A review of social adjustment and rehabilitation. *Eval Health Prof* 1983;6:397-412.
2. Standards Committee of the American Society of Transplant Surgeons: Current results and expectations of renal transplantation. *JAMA* 1981;246:1330-1331.
3. Krakauer H, Grauman JS, McMullan MR, et al: The recent U.S. experience in the treatment of end-stage renal disease by dialysis and transplantation. *N Engl J Med* 1983;308:1558-1563.
4. Prowant B, Nolph KD, Dutton S, et al: Actuarial analysis of patient survival and dropout with various end-stage renal disease therapies. *Am J Kidney Dis* 1983;3:27-31.
5. Vollmer WM, Wahl PW, Blagg CR: Survival with dialysis and transplantation in patients with end-stage renal disease. *N Engl J Med* 1983;308:1553-1558.
6. Terasaki PI, Perdue ST, Sasaki N, et al: Improving success rates of kidney transplantation. *JAMA* 1983;250:1065-1068.
7. Landes NE, Holman JM, Maxwell G: Rehabilitation of the end-stage renal disease patient through transplantation. *Dial Transplant* 1983;12:580-582.
8. Evans RW, Mannienen DL, Garrison LP, et al: The quality of life of patients with end-stage renal disease. *N Engl J Med* 1985;312:553-559.
9. Helwig JT, Council KA, eds: Statistical Analysis System (SAS) User's Guide. Cary, NC, SAS Institute, 1979.
10. Ross G, Anderson CB, Codd JE, et al: Current status of Missouri kidney transplant patients. *Missouri Med* 1984;81:316-319.
11. Wilson FA, Neuhauser D: Health Services in the United States, ed 2. Cambridge, Mass., Ballinger, 1982, p111.

This study was supported by the National Kidney Foundation of Eastern Missouri and Metro East, Inc., St. Louis, Missouri, and the Missouri Kidney Program, Columbia, Missouri.

Reprints

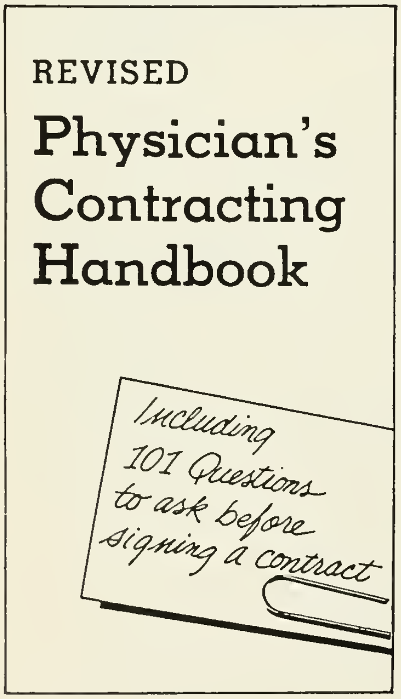
Marc D. Smith, Ph.D.
Assistant Professor
Health Administration Program
Washington University School of Medicine
4547 Clayton Avenue
St. Louis, Missouri 63110

"Without your help I simply could not have made it through medical school."

The Missouri State Medical Foundation — MSMF — was created by the Missouri State Medical Association for the express purpose of giving financial assistance to deserving young Missourians who will be tomorrow's doctors.

Send your check today to the Missouri State Medical Foundation, 113 Madison St., P.O. Box 1028, Jefferson City, MO 65101.

Know what you're signing before you sign it



REVISED

Physician's Contracting Handbook

Including 101 Questions to ask before signing a contract

There is no shortage of business-minded organizations — HMOs, PPOs, and a variety of other entities — that would like to sign you onto their medical staffs. You may be knowledgeable about your medical specialty, but how do you decipher contract legalese?

How do you decide what clauses and provisions are in your best interest — and which could actually hurt your practice?

How do you determine when a contract would hinder your ability to make independent medical decisions, based on your patients' individual needs?

The MSMA has a new booklet that can help.

Developed and researched by the California Medical Association, the PHYSICIAN'S CONTRACTING HANDBOOK is a 56-page booklet that tackles specific contractual issues taken from actual contacts. By illustrating issues with actual contract language, the booklet points out typical pitfalls and shows how to avoid or renegotiate them.

The booklet concludes with a list of 101 questions you should ask before signing any contract for your medical services. A glossary defines essential antitrust terminology, and plain language clarifies sticky legal terms throughout the handbook.

Whether you are dealing with one business entity or a dozen, you shouldn't be without the information in the PHYSICIAN'S CONTRACTING HANDBOOK. The handy booklet is only $5.00 for MSMA members. ($15.00 for non-members)

Order your copy today. Send your check made out to MSMA to P.O. Box 1028, Jefferson City, MO 65102. ■

In **1928**, the U.S. government established the Federal Radio Commission, sound was added to the movies and United Missouri Bank opened its Personal Financial Planning Division.

United Missouri Bank announced Personal Financial Planning Services in '28. It didn't make national headlines. It did make a difference.

Since then, United Missouri has helped hundreds of individuals and their attorneys construct estate plans.

The bank attributes its success to personal service. United Missouri's experts meet privately with customers. They get to know the customer's needs. So, the customer gets a highly individualized estate plan.

Over the years, they've made a difference with their customer's estate plans, trusts, investments and much more.

Today, United Missouri Bank still makes a difference. They can make a difference for you. To ask about Personal Financial Planning Services, call United Missouri's Gregg Thomas at 556-7737. And, pick the proven performer.

UNITED MISSOURI BANKS
Members FDIC

P.O. Box 419226, Kansas City, Missouri 64141-6226

Information for Contributors

Articles are accepted for publication on condition that they are contributed solely to this journal. Material appearing in Missouri Medicine is protected by copyright.

Manuscripts should be submitted to the editor, Jordan W. Burkey, M.D., P.O. Box 1028, 113 Madison, Jefferson City, Mo. 65102. The transmittal letter should designate one author as correspondent and include his address and telephone number.

In addition, in view of *The Copyright Revision Act of 1976*, effective Jan. 1, 1978, transmittal letters to the editor should contain the following language: "In consideration of the Missouri State Medical Association's taking action in reviewing and editing my submission, the author(s) undersigned hereby transfers, assigns or otherwise conveys all copyright ownership to the MSMA in the event that such work is published by the MSMA." We regret that transmittal letters not containing the foregoing language signed by all authors of the submission will necessitate delay in review of the manuscript. Please include the title of the article in the transmittal letter.

Manuscripts

Manuscripts should be typewritten, double spaced, and the original with one copy submitted. Retain another copy for proofreading. Please number the pages of your manuscript. Manuscripts are not returned. Hospital and University appointments of the author(s) should accompany the manuscript. A synopsis-abstract of no more than 75 words should accompany the manuscript.

References

References should be cited in numerical order in the text and arranged at the end of the article in the same order in which they are cited. The reference should give name of author, title of article, name of periodical, volume number, initial page number and year. Authors are responsible for reference accuracy.

Illustrations

Illustrations should be glossy prints or drawings in India ink on white paper. They should not be mounted and name of author and figure number should be penciled lightly on the back. Legends should appear on a separate sheet.

Legal difficulties may arise from unauthorized use of names, initials or photographs in which individuals can be identified. Permission should be secured from patient or legal guardian and signed duplicate or photostat submitted with such photographs or identification. The Editor and Editorial Board assume no responsibility for the opinions and claims expressed in articles contributed by authors. If citation of an institution related to the article is made, approval of the chief of service should be given in a letter accompanying the article.

Reprints

Reprint order blanks will accompany proof, which will be sent to authors prior to publication.

Editorials

Editorials should be written in clear, concise language. Length should be about two or three pages typed with double spacing.

Letters

Letters will be published at the discretion of the editor, managing editor, and Editorial Board.

Deadline

All material other than scientific should be received prior to the first of the month preceding month of publication.

Index to Advertisers

Air Force **738**

Army National Guard **784**

Burroughs Wellcome **770C-D, 771**

D.O.C., Inc. **774**

E. F. Hutton **740**

Eli Lilly **770B**

Ellis Fischel **774**

Forrest T. Jones **732**

Fred S. James **744**

Goetze-Niemer **747**

Health Resources **777**

Medical Defense Associates **734**

Medical Protective Company **739**

MOMEDICO **730**

Risk Control Associates **792**

Roche Laboratories **742, 772-773, 795-796**

The Shealy Institute **772**

Smith, Kline and French **770A**

United Missouri Banks **769**

Wes Woodbury **784**

Before prescribing, see complete prescribing information in SK&F CO. literature or *PDR*. The following is a brief summary.

* **WARNING**

This drug is not indicated for initial therapy of edema or hypertension. Edema or hypertension requires therapy titrated to the individual. If this combination represents the dosage so determined, its use may be more convenient in patient management. Treatment of hypertension and edema is not static, but must be reevaluated as conditions in each patient warrant.

Contraindications: Concomitant use with other potassium-sparing agents such as spironolactone or amiloride. Further use in anuria, progressive renal or hepatic dysfunction, hyperkalemia. Pre-existing elevated serum potassium. Hypersensitivity to either component or other sulfonamide-derived drugs.

Warnings: Do not use potassium supplements, dietary or otherwise, unless hypokalemia develops or dietary intake of potassium is markedly impaired. If supplementary potassium is needed, potassium tablets should not be used. Hyperkalemia can occur, and has been associated with cardiac irregularities. It is more likely in the severely ill, with urine volume less than one liter/day, the elderly and diabetics with suspected or confirmed renal insufficiency. Periodically, serum K^+ levels should be determined. If hyperkalemia develops, substitute a thiazide alone, restrict K^+ intake. **Associated widened QRS complex or arrhythmia requires prompt additional therapy.** Thiazides cross the placental barrier and appear in cord blood. Use in pregnancy requires weighing anticipated benefits against possible hazards, including fetal or neonatal jaundice, thrombocytopenia, other adverse reactions seen in adults. Thiazides appear and triamterene may appear in breast milk. If their use is essential, the patient should stop nursing. Adequate information on use in children is not available. Sensitivity reactions may occur in patients with or without a history of allergy or bronchial asthma. Possible exacerbation or activation of systemic lupus erythematosus has been reported with thiazide diuretics.

Precautions: The bioavailability of the hydrochlorothiazide component of 'Dyazide' is about 50% of the bioavailability of the single entity. Theoretically, a patient transferred from the single entities of triamterene and hydrochlorothiazide may show an increase in blood pressure or fluid retention. Similarly, it is also possible that the lesser hydrochlorothiazide bioavailability could lead to increased serum potassium levels. However, extensive clinical experience with 'Dyazide' suggests that these conditions have not been commonly observed in clinical practice. Angiotensin-converting enzyme (ACE) inhibitors can elevate serum potassium; use with caution with 'Dyazide'. Do periodic serum electrolyte determinations (particularly important in patients vomiting excessively or receiving parenteral fluids, and during concurrent use with amphotericin B or corticosteroids or corticotropin [ACTH]). Periodic BUN and serum creatinine determinations should be made, especially in the elderly, diabetics or those with suspected or confirmed renal insufficiency. Cumulative effects of the drug may develop in patients with impaired renal function. Thiazides should be used with caution in patients with impaired hepatic function. They can precipitate coma in patients with severe liver disease. Observe regularly for possible blood dyscrasias, liver damage, other idiosyncratic reactions. Blood dyscrasias have been reported in patients receiving triamterene, and leukopenia, thrombocytopenia, agranulocytosis, and aplastic and hemolytic anemia have been reported with thiazides. Thiazides may cause manifestation of latent diabetes mellitus. The effects of oral anticoagulants may be decreased when used concurrently with hydrochlorothiazide; dosage adjustments may be necessary. Clinically insignificant reductions in arterial responsiveness to norepinephrine have been reported. Thiazides have also been shown to increase the paralyzing effect of nondepolarizing muscle relaxants such as tubocurarine. Triamterene is a weak folic acid antagonist. Do periodic blood studies in cirrhotics with splenomegaly. Antihypertensive effects may be enhanced in post-sympathectomy patients. Use cautiously in surgical patients. Triamterene has been found in renal stones in association with the other usual calculus components. Therefore, 'Dyazide' should be used with caution in patients with histories of stone formation. A few occurrences of acute renal failure have been reported in patients on 'Dyazide' when treated with indomethacin. Therefore, caution is advised in administering nonsteroidal anti-inflammatory agents with 'Dyazide'. The following may occur: transient elevated BUN or creatinine or both, hyperglycemia and glycosuria (diabetic insulin requirements may be altered), hyperuricemia and gout, digitalis intoxication (in hypokalemia), decreasing alkali reserve with possible metabolic acidosis 'Dyazide' interferes with fluorescent measurement of quinidine. Hypokalemia is uncommon with 'Dyazide', but should it develop, corrective measures should be taken such as potassium supplementation or increased dietary intake of potassium-rich foods. Corrective measures should be instituted cautiously and serum potassium levels determined. Discontinue corrective measures and 'Dyazide' should laboratory values reveal elevated serum potassium. Chloride deficit may occur as well as dilutional hyponatremia. Concurrent use with chlorpropamide may increase the risk of severe hyponatremia. Serum PBI levels may decrease without signs of thyroid disturbance. Calcium excretion is decreased by thiazides. 'Dyazide' should be withdrawn before conducting tests for parathyroid function. Thiazides may add to or potentiate the action of other antihypertensive drugs. Diuretics reduce renal clearance of lithium and increase the risk of lithium toxicity.

Adverse Reactions: Muscle cramps, weakness, dizziness, headache, dry mouth; anaphylaxis, rash, urticaria, photosensitivity, purpura, other dermatological conditions; nausea and vomiting, diarrhea, constipation, other gastrointestinal disturbances; postural hypotension (may be aggravated by alcohol, barbiturates, or narcotics). Necrotizing vasculitis, paresthesias, icterus, pancreatitis, xanthopsia and respiratory distress including pneumonitis and pulmonary edema, transient blurred vision, sialadenitis, and vertigo have occurred with thiazides alone. Triamterene has been found in renal stones in association with other usual calculus components. Rare incidents of acute interstitial nephritis have been reported. Impotence has been reported in a few patients on 'Dyazide', although a causal relationship has not been established.

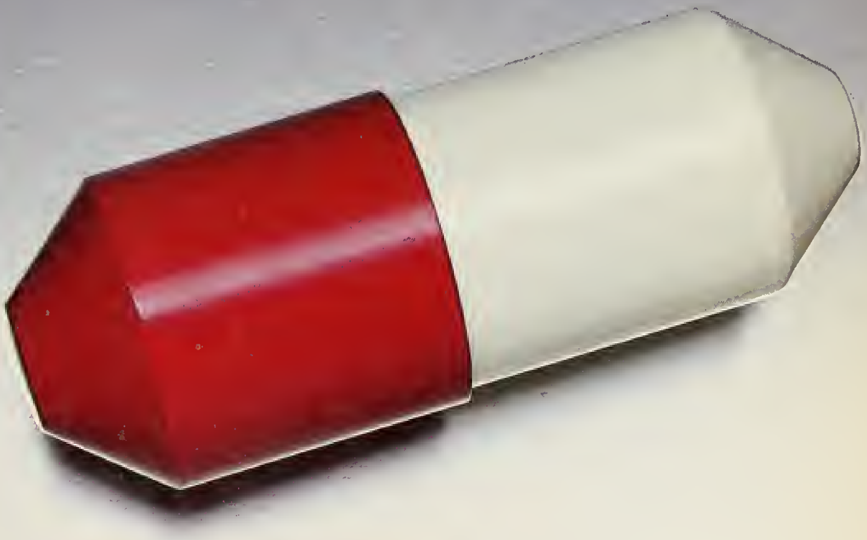
Supplied: 'Dyazide' is supplied as a red and white capsule, in bottles of 1000 capsules; Single Unit Packages (unit-dose) of 100 (intended for institutional use only); in Patient-Pak™ unit-of-use bottles of 100.

BRS-DZ.L42

In Hypertension*... When You Need to Conserve K+

Remember the Unique Red and White Capsule: Your Assurance of SK&F Quality

Serum K^+ and BUN should be checked periodically (see Warnings and Precautions).



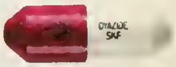
Potassium-Sparing

DYAZIDE®

25 mg Hydrochlorothiazide/**50 mg** Triamterene/SKF

Over 20 Years of Confidence

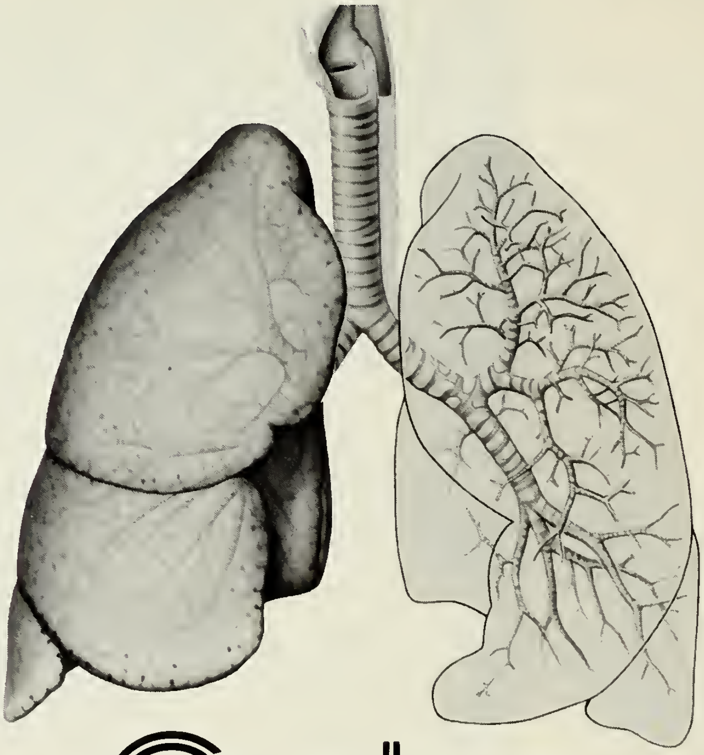
The unique
red and white
Dyazide® capsule:
Your assurance of
SK&F quality.



a product of
SK&F CO.
Carolina, P.R 00630

© SK&F Co., 1983

Consider the causative organisms...



Ceclor®
cefaclor

250-mg Pulvules® t.i.d.
offers effectiveness against the major causes of bacterial bronchitis

Haemophilus influenzae and *Streptococcus pneumoniae*
(ampicillin-susceptible and ampicillin-resistant)

Note: Ceclor is contraindicated in patients with known allergy to the cephalosporins and should be given cautiously to penicillin-allergic patients.

Penicillin is the usual drug of choice in the treatment and prevention of streptococcal infections, including the prophylaxis of rheumatic fever. See prescribing information.

Ceclor® (cefaclor)

Summary. Consult the package literature for prescribing information.

Indication: Lower respiratory infections, including pneumonia, caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, and *Streptococcus pyogenes* (group A β-hemolytic streptococci).

Contraindication:
Known allergy to cephalosporins.

Warnings:
CECLOR SHOULD BE ADMINISTERED CAUTIOUSLY TO PENICILLIN-SENSITIVE PATIENTS. PENICILLINS AND CEPHALOSPORINS SHOW PARTIAL CROSS-ALLERGENICITY. POSSIBLE REACTIONS INCLUDE ANAPHYLAXIS.

Administer cautiously to allergic patients.

Pseudomembranous colitis has been reported with virtually all broad-spectrum antibiotics. It must be considered in differential diagnosis of antibiotic-associated diarrhea. Colon flora is altered by broad-spectrum antibiotic treatment, possibly resulting in antibiotic-associated colitis.

Precautions:
- Discontinue Ceclor in the event of allergic reactions to it.
- Prolonged use may result in overgrowth of nonsusceptible organisms.
- Positive direct Coombs' tests have been reported during treatment with cephalosporins.
- Ceclor should be administered with caution in the presence of markedly impaired renal function. Although dosage adjustments in moderate to severe renal impairment are usually not required, careful clinical observation and laboratory studies should be made.
- Broad-spectrum antibiotics should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.
- Safety and effectiveness have not been determined in pregnancy, lactation, and infants less than one month old. Ceclor penetrates mother's milk. Exercise caution in prescribing for these patients.

Adverse Reactions: (percentage of patients)

Therapy-related adverse reactions are uncommon. Those reported include:
- Gastrointestinal (mostly diarrhea): 2.5%.
- Symptoms of pseudomembranous colitis may appear either during or after antibiotic treatment.
- Hypersensitivity reactions (including morbilliform eruptions, pruritus, urticaria, and serum-sickness-like reactions that have included erythema multiforme [rarely, Stevens-Johnson syndrome] or the above skin manifestations accompanied by arthritis/arthralgia and, frequently, fever): 1.5%; usually subside within a few days after cessation of therapy. Serum-sickness-like reactions have been reported more frequently in children than in adults and have usually occurred during or following a second course of therapy with Ceclor. No serious sequelae have been reported. Antihistamines and corticosteroids appear to enhance resolution of the syndrome.
- Cases of anaphylaxis have been reported, half of which have occurred in patients with a history of penicillin allergy.
- As with some penicillins and some other cephalosporins, transient hepatitis and cholestatic jaundice have been reported rarely.
- Rarely, reversible hyperactivity, nervousness, insomnia, confusion, hypertonia, dizziness, and somnolence have been reported.
- Other: eosinophilia, 2%; genital pruritus or vaginitis, less than 1%; and, rarely, thrombocytopenia

Abnormalities in laboratory results of uncertain etiology
- Slight elevations in hepatic enzymes.
- Transient fluctuations in leukocyte count (especially in infants and children).
- Abnormal urinalysis; elevations in BUN or serum creatinine.
- Positive direct Coombs' test.
- False-positive tests for urinary glucose with Benedict's or Fehling's solution and Clinitest® tablets but not with Tes-Tape® (glucose enzymatic test strip, Lilly). [061787L]

PA 0709 AMP

©1987, ELI LILLY AND COMPANY CR-5005-B-849318

Lilly

Additional information available to the profession on request from Eli Lilly and Company, Indianapolis, Indiana 46285

Eli Lilly Industries, Inc
Carolina, Puerto Rico 00630

"Living in the city
is lonely enough...
with herpes it's like
solitary confinement."

ZOVIRAX®
(acyclovir)
CAPSULES

Prevent genital herpes recurrences month after month with daily therapy.

(In controlled studies, recurrences were totally prevented for 4 to 6 months in up to 75% of patients.)

Please see last page of this advertisement for brief summary of prescribing information.

ZOVIRAX®
(acyclovir)
CAPSULES

Help free your patients from recurrences.

Daily therapy

Coping with genital herpes is rarely easy. For some, the worst part is the pain and discomfort of frequent attacks—month after month, year after year. For others, the emotional burden presents a more difficult problem, leading to social isolation, anxiety, and diminished self-esteem.

Prevent or reduce recurrences

Although your patients have to live with herpes, they shouldn't have to suffer. Daily therapy with ZOVIRAX CAPSULES can help free them from the cycle of recurrent genital herpes. For many, one capsule three times a day can suppress recurrences completely while on therapy.

Generally well tolerated

Daily therapy with ZOVIRAX CAPSULES is generally well tolerated. The most frequent adverse reactions reported during clinical trials were headache, diarrhea, nausea/vomiting, vertigo, and arthralgia.

The physical and emotional difficulties posed by genital herpes are unique for each patient. The frequency and severity of recurrent episodes, as well as the emotional impact of the disease, should be considered when selecting daily therapy with ZOVIRAX CAPSULES.

Please see brief summary of prescribing information on next page.

Prevent recurrences month after month*

ZOVIRAX® (acyclovir) CAPSULES

Brief Summary

INDICATIONS AND USAGE: Zovirax Capsules are indicated for the treatment of initial episodes and the management of recurrent episodes of genital herpes in certain patients.

The severity of disease is variable depending upon the immune status of the patient, the frequency and duration of episodes, and the degree of cutaneous or systemic involvement. These factors should determine patient management, which may include symptomatic support and counseling only, or the institution of specific therapy. The physical, emotional and psycho-social difficulties posed by herpes infections as well as the degree of debilitation, particularly in immunocompromised patients, are unique for each patient, and the physician should determine therapeutic alternatives based on his or her understanding of the individual patient's needs. Thus Zovirax Capsules are not appropriate in treating all genital herpes infections. The following guidelines may be useful in weighing the benefit/risk considerations in specific disease categories:

First Episodes (primary and nonprimary infections — commonly known as initial genital herpes):

Double-blind, placebo-controlled studies have demonstrated that orally administered Zovirax significantly reduced the duration of acute infection (detection of virus in lesions by tissue culture) and lesion healing. The duration of pain and new lesion formation was decreased in some patient groups. The promptness of initiation of therapy and/or the patient's prior exposure to Herpes simplex virus may influence the degree of benefit from therapy. Patients with mild disease may derive less benefit than those with more severe episodes. In patients with extremely severe episodes, in which prostration, central nervous system involvement, urinary retention or inability to take oral medication require hospitalization and more aggressive management, therapy may be best initiated with intravenous Zovirax.

Recurrent Episodes:

Double-blind, placebo-controlled studies in patients with frequent recurrences (6 or more episodes per year) have shown that Zovirax Capsules given for 4 to 6 months prevented or reduced the frequency and/or severity of recurrences in greater than 95% of patients. Clinical recurrences were prevented in 40 to 75% of patients. Some patients experienced increased severity of the first episode following cessation of therapy; the severity of subsequent episodes and the effect on the natural history of the disease are still under study.

The safety and efficacy of orally administered acyclovir in the suppression of frequent episodes of genital herpes have been established only for up to 6 months. Chronic suppressive therapy is most appropriate when, in the judgement of the physician, the benefits of such a regimen outweigh known or potential adverse effects. In general, Zovirax Capsules should not be used for the suppression of recurrent disease in mildly affected patients. Unanswered questions concerning the human relevance of *in vitro* mutagenicity studies and reproductive toxicity studies in animals given very high doses of acyclovir for short periods (see Carcinogenesis, Mutagenesis, Impairment of Fertility) should be borne in mind when designing long-term management for individual patients. Discussion of these issues with patients will provide them the opportunity to weigh the potential for toxicity against the severity of their disease. Thus, this regimen should be considered only for appropriate patients and only for six months until the results of ongoing studies allow a more precise evaluation of the benefit/risk assessment of prolonged therapy.

Limited studies have shown that there are certain patients for whom intermittent short-term treatment of recurrent episodes is effective. This approach may be more appropriate than a suppressive regimen in patients with infrequent recurrences.

Immunocompromised patients with recurrent herpes infections can be treated with either intermittent or chronic suppressive therapy. Clinically significant resistance, although rare, is more likely to be seen with prolonged or repeated therapy in severely immunocompromised patients with active lesions.

CONTRAINDICATIONS: Zovirax Capsules are contraindicated for patients who develop hypersensitivity or intolerance to the components of the formulation.

WARNINGS: Zovirax Capsules are intended for oral ingestion only.

PRECAUTIONS: General: Zovirax has caused decreased spermatogenesis at high doses in some animals and mutagenesis in some acute studies at high concentrations of drug (see PRECAUTIONS — Carcinogenesis, Mutagenesis, Impairment of Fertility). The recommended dosage and length of treatment should not be exceeded (see DOSAGE AND ADMINISTRATION).

Exposure of Herpes simplex isolates to acyclovir *in vitro* can lead to the emergence of less sensitive viruses. The possibility of the appearance of less sensitive viruses in man must be borne in mind when treating patients. The relationship between the *in vitro* sensitivity of Herpes simplex virus to acyclovir and clinical response to therapy has yet to be established.

Because of the possibility that less sensitive virus may be selected in patients who are receiving acyclovir, all patients should be advised to take particular care to avoid potential transmission of virus if active lesions are present while they are on therapy. In severely immunocompromised patients, the physician should be aware that prolonged or repeated courses of acyclovir may result in selection of resistant viruses which may not fully respond to continued acyclovir therapy.

Drug Interactions: Co-administration of probenecid with intravenous acyclovir has been shown to increase the mean half-life and the area under the concentration-time curve. Urinary excretion and renal clearance were correspondingly reduced.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Acyclovir was tested in lifetime bioassays in rats and mice at single daily doses of 50, 150 and 450 mg/kg given by gavage. There was no statistically significant difference in the incidence of tumors between treated and control animals, nor did acyclovir shorten the latency of tumors. In 2 *in vitro* cell transformation assays, used to provide preliminary assessment of potential oncogenicity in advance of these more definitive life-time bioassays in rodents, conflicting results were obtained. Acyclovir was positive at the highest dose used in one system and the resulting morphologically transformed cells formed tumors when inoculated into immunosuppressed, syngeneic, weanling mice. Acyclovir was negative in another transformation system considered less sensitive.

In acute studies, there was an increase, not statistically significant, in the incidence of chromosomal damage at maximum tolerated parenteral doses of 100 mg/kg acyclovir in rats but not Chinese hamsters; higher doses of 500 and 1000 mg/kg were clastogenic in Chinese hamsters. In addition, no activity was found after 5 days dosing in a dominant lethal study in mice. In 6 of 11 microbial and mammalian cell assays, no evidence of mutagenicity was observed. At 3 loci in a Chinese hamster ovary cell line, the results were inconclusive. In 2 mammalian cell assays (human lymphocytes and L5178Y mouse lymphoma cells *in vitro*), positive responses for mutagenicity and chromosomal damage occurred, but only at concentrations at least 400 times the acyclovir plasma levels achieved in man.

Acyclovir has not been shown to impair fertility or reproduction in mice (450 mg/kg/day, p.o.) or in rats (25 mg/kg/day, s.c.). At 50 mg/kg/day s.c. in the rat, there was a statistically significant increase in post-implantation loss, but no concomitant decrease in litter size. In female rabbits treated subcutaneously with acyclovir subsequent to mating, there was a statistically significant decrease in implantation efficiency but no concomitant decrease in litter size at a dose of 50 mg/kg/day. No effect upon implantation efficiency was observed when the same dose was administered intravenously. In a rat peri- and postnatal study at 50 mg/kg/day s.c., there was a statistically significant decrease in the group mean numbers of corpora lutea, total implantation sites and live fetuses in the F_1 generation. Although not statistically significant, there was also a dose related decrease in group mean numbers of live fetuses and implantation sites at 12.5 mg/kg/day and 25 mg/kg/day, s.c. The intravenous administration of 100 mg/kg/day, a dose known to cause obstructive nephropathy in rabbits, caused a significant increase in fetal resorptions and a corresponding decrease in litter size. However, at a maximum tolerated intravenous dose of 50 mg/kg/day in rabbits, there were no drug-related reproductive effects.

Intraperitoneal doses of 320 or 80 mg/kg/day acyclovir given to rats for 1 and 6 months, respectively, caused testicular atrophy. Testicular atrophy was persistent through the 4-week postdose recovery phase after 320 mg/kg/day; some evidence of recovery of sperm production was evident 30 days postdose. Intravenous doses of 100 and 200 mg/kg/day acyclovir given to dogs for 31 days caused aspermatogenesis. Testicles were normal in dogs given 50 mg/kg/day, i.v. for one month.

Pregnancy: *Teratogenic Effects:* Pregnancy Category C. Acyclovir was not teratogenic in the mouse (450 mg/kg/day, p.o.), rat (50 mg/kg/day, s.c.) or rabbit (50 mg/kg/day, s.c. and i.v.). There are no adequate and well-controlled studies in pregnant women. Acyclovir should not be used during pregnancy unless the potential benefit justifies the potential risk to the fetus. Although acyclovir was not teratogenic in animal studies, the drug's potential for causing chromosome breaks at high concentration should be taken into consideration in making this determination.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Zovirax is administered to a nursing woman. In nursing mothers, consideration should be given to not using acyclovir treatment or discontinuing breastfeeding.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS — Short-Term Administration: The most frequent adverse reactions reported during clinical trials were nausea and/or vomiting in 8 of 298 patient treatments (2.7%) and headache in 2 of 298 (0.6%). Less frequent adverse reactions, each of which occurred in 1 of 298 patient treatments (0.3%), included diarrhea, dizziness, anorexia, fatigue, edema, skin rash, leg pain, inguinal adenopathy, medication taste and sore throat.

Long-Term Administration: The most frequent adverse reactions reported in studies of daily therapy for 3 to 6 months were headache in 33 of 251 patients (13.1%), diarrhea in 22 of 251 (8.8%), nausea and/or vomiting in 20 of 251 (8.0%), vertigo in 9 of 251 (3.6%), and arthralgia in 9 of 251 (3.6%). Less frequent adverse reactions, each of which occurred in less than 3% of the 251 patients (see number of patients in parentheses), included skin rash (7), insomnia (4), fatigue (7), fever (4), palpitations (1), sore throat (2), superficial thrombophlebitis (1), muscle cramps (2), pars planitis (1), menstrual abnormality (4), acne (3), lymphadenopathy (2), irritability (1), accelerated hair loss (1), and depression (1).

DOSAGE AND ADMINISTRATION: Treatment of initial genital herpes: One 200 mg capsule every 4 hours, while awake, for a total of 5 capsules daily for 10 days (total 50 capsules).

Chronic suppressive therapy for recurrent disease: One 200 mg capsule 3 times daily for up to 6 months. Some patients may require more drug, up to one 200 mg capsule 5 times daily for up to 6 months.

Intermittent Therapy: One 200 mg capsule every 4 hours, while awake, for a total of 5 capsules daily for 5 days (total 25 capsules). Therapy should be initiated at the earliest sign or symptom (prodrome) of recurrence.

Patients With Acute or Chronic Renal Impairment: One 200 mg capsule every 12 hours is recommended for patients with creatinine clearance ≤ 10 ml/min/1.73/m².

HOW SUPPLIED: Zovirax Capsules (blue, opaque) containing 200 mg acyclovir and printed with "Wellcome ZOVIRAX 200" - Bottles of 100 (NDC-0081-0991-55) and unit dose pack of 100 (NDC-0081-0991-56).

Store at 15°-30°C (59°-86°F) and protect from light.

---

*In controlled studies, recurrences were totally prevented for 4 to 6 months in up to 75% of patients.

Burroughs Wellcome Co., Research Triangle Park, North Carolina 27709

Copr © 1986 Burroughs Wellcome Co. All rights reserved. 86-ZOV-[illegible]

The Shealy Institute

A PRACTICAL SOLUTION
TO ONE OF YOUR MOST
FRUSTRATING PATIENT PROBLEMS

The Logical Extension of Your Professional Services —

- Our Institute pioneered the comprehensive "Pain Rehabilitation" concept.
- We introduced the pain control techniques most often used in rehabilitating chronic pain patients — facet rhizotomy, TENS, PENS, Biogenics®, and neurochemical profiling.
- We continue to be the recognized leader in the field. Our success is measured by your patient's ability to return to work, withdraw from drugs, and control pain intensity.
- Since we specialize in pain management, your patient returns to you after treatment. We are available as consultants at any time. We are the only *accredited* pain management clinic in the four state area. Our services are covered by most insurance companies and worker's comp programs.

Send for a free copy of
the Shealy Pain Report.

The Shealy Institute
3525 S. National
Springfield, MO 65807
417-882-0850
1-800-492-4171, Ext. 35

carf

CARF
A Nationally Accredited
Rehabilitation Facility

Cost Control

You and
your physician —
Partners in
reducing health
care costs

Everyone talks about cost control these days. Here's a brochure that lets your patients know *they* can have a hand in keeping health care costs down.

"You and Your Physician" has been a best-seller for several years. It's the perfect size for a waiting room table or book rack, or as an enclosure with patient bills.

Cost: 10¢ each, or write for a free sample copy.

MSMA Communications
P.O. Box 1028
Jefferson City, MO 65102

Make checks payable to the Missouri State Medical Association.

LIBRIUM® Ⓒ
chlordiazepoxide HCl/Roche
5-mg, 10-mg, 25-mg capsules

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Management of anxiety disorders; short-term relief of anxiety symptoms, acute alcohol withdrawal symptoms, preoperative apprehension and anxiety. Usually not required for anxiety or tension associated with stress of everyday life. Efficacy beyond four months not established by systematic clinical studies. Periodic reassessment of therapy recommended.

Contraindications: Known hypersensitivity to the drug

Warnings: Warn patients that mental and/or physical abilities required for tasks such as driving or operating machinery may be impaired, as may be mental alertness in children, and that concomitant use with alcohol or CNS depressants may have an additive effect. Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage. Withdrawal symptoms (including convulsions) reported after abrupt cessation of extended use of excessive doses are similar to those seen with barbiturates. Milder symptoms reported infrequently when continuous therapy is abruptly ended. Avoid abrupt discontinuation; gradually taper dosage.

***Usage in Pregnancy:* Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically. Due to isolated reports of exacerbation, use with caution in patients with porphyria.

Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.

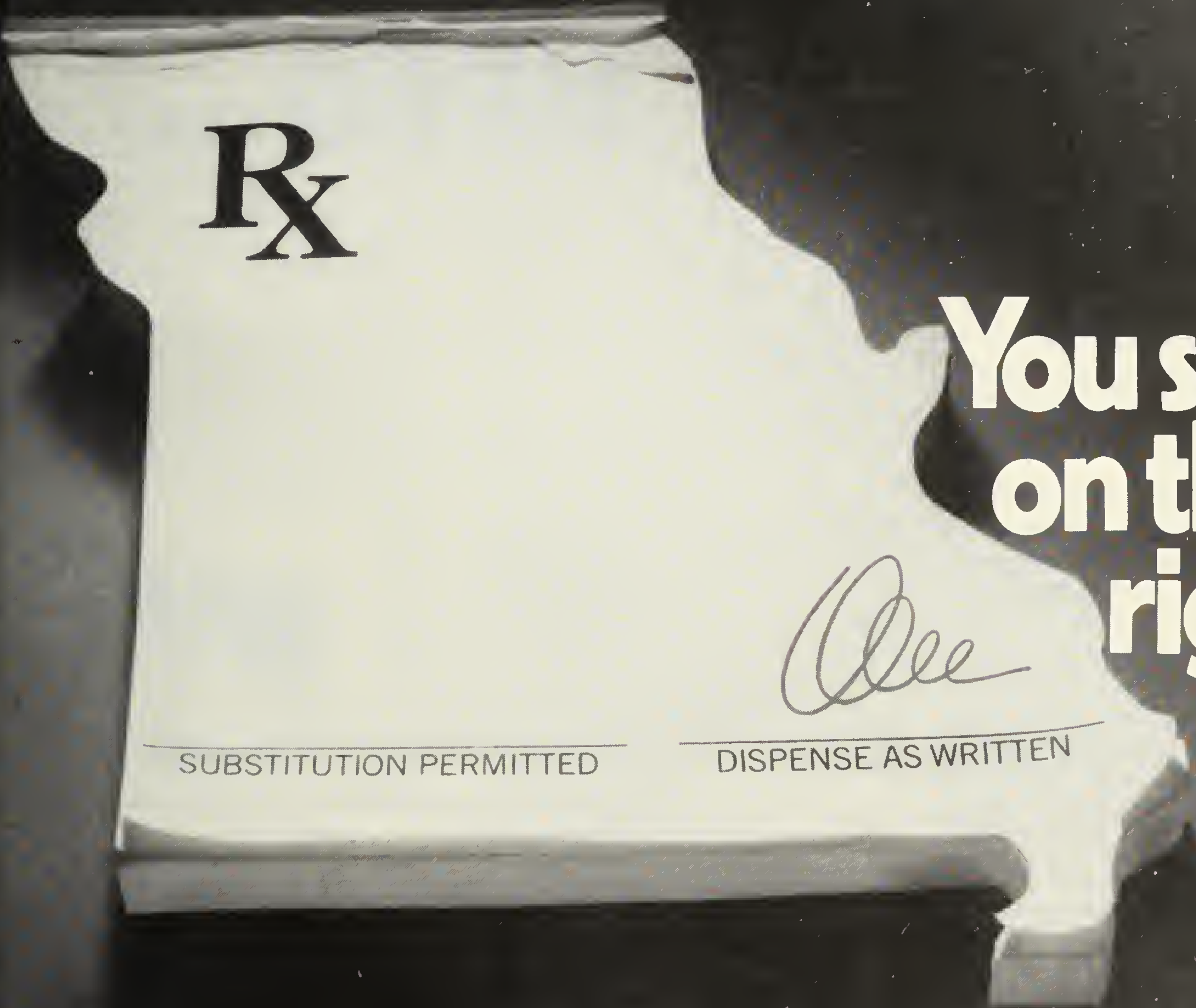
Usual Daily Dosage: Individualize for maximum beneficial effects. *Oral—Adults:* Mild and moderate anxiety disorders and symptoms, 5 or 10 mg *t.i.d.* or *q.i.d.*; severe states, 20 or 25 mg *t.i.d.* or *q.i.d.* *Geriatric patients:* 5 mg *b.i.d.* to *q.i.d.* (See Precautions.)

Supplied: Librium® (chlordiazepoxide HCl/Roche) *Capsules,* 5 mg, 10 mg and 25 mg—bottles of 100 and 500; Tel-E-Dose® packages of 100, available in boxes of 4 reverse-numbered cards of 25, and in boxes containing 10 strips of 10. Libritabs® (chlordiazepoxide/Roche) *Tablets,* 5 mg and 10 mg—bottles of 100 and 500; 25 mg—bottles of 100. With respect to clinical activity, capsules and tablets are indistinguishable. PI 0286

ROCHE®
Roche Products Inc.
Manati, Puerto Rico 00701

In Missouri, when you decide to prescribe Librium,

To protect your decision...


Rx
SUBSTITUTION PERMITTED
DISPENSE AS WRITTEN

You sign on the right.

Librium® 5-mg, 10-mg, 25-mg capsules
brand of
chlordiazepoxide HCl/Roche Ⓘⓥ
nobody does it better!

ROCHE® Copyright © 1987 by Roche Products Inc. All rights reserved.

Please see adjacent page for a summary of product information.

ZOVIRAX®
(acyclovir)
CAPSULES

Help free your patients from recurrences.

Daily therapy

Coping with genital herpes is rarely easy. For some, the worst part is the pain and discomfort of frequent attacks—month after month, year after year. For others, the emotional burden presents a more difficult problem, leading to social isolation, anxiety, and diminished self-esteem.

Prevent or reduce recurrences

Although your patients have to live with herpes, they shouldn't have to suffer. Daily therapy with ZOVIRAX CAPSULES can help free them from the cycle of recurrent genital herpes. For many, one capsule three times a day can suppress recurrences completely while on therapy.

Generally well tolerated

Daily therapy with ZOVIRAX CAPSULES is generally well tolerated. The most frequent adverse reactions reported during clinical trials were headache, diarrhea, nausea/vomiting, vertigo, and arthralgia.

The physical and emotional difficulties posed by genital herpes are unique for each patient. The frequency and severity of recurrent episodes, as well as the emotional impact of the disease, should be considered when selecting daily therapy with ZOVIRAX CAPSULES.

Please see brief summary of prescribing information on next page.

Prevent recurrences month after month*

ZOVIRAX®
(acyclovir)
CAPSULES

Brief Summary

INDICATIONS AND USAGE: Zovirax Capsules are indicated for the treatment of initial episodes and the management of recurrent episodes of genital herpes in certain patients.

The severity of disease is variable depending upon the immune status of the patient, the frequency and duration of episodes, and the degree of cutaneous or systemic involvement. These factors should determine patient management, which may include symptomatic support and counseling only, or the institution of specific therapy. The physical, emotional and psycho-social difficulties posed by herpes infections as well as the degree of debilitation, particularly in immunocompromised patients, are unique for each patient, and the physician should determine therapeutic alternatives based on his or her understanding of the individual patient's needs. Thus Zovirax Capsules are not appropriate in treating all genital herpes infections. The following guidelines may be useful in weighing the benefit/risk considerations in specific disease categories:

First Episodes (primary and nonprimary infections — commonly known as initial genital herpes):

Double-blind, placebo-controlled studies have demonstrated that orally administered Zovirax significantly reduced the duration of acute infection (detection of virus in lesions by tissue culture) and lesion healing. The duration of pain and new lesion formation was decreased in some patient groups. The promptness of initiation of therapy and/or the patient's prior exposure to Herpes simplex virus may influence the degree of benefit from therapy. Patients with mild disease may derive less benefit than those with more severe episodes. In patients with extremely severe episodes, in which prostration, central nervous system involvement, urinary retention or inability to take oral medication require hospitalization and more aggressive management, therapy may be best initiated with intravenous Zovirax.

Recurrent Episodes:

Double-blind, placebo-controlled studies in patients with frequent recurrences (6 or more episodes per year) have shown that Zovirax Capsules given for 4 to 6 months prevented or reduced the frequency and/or severity of recurrences in greater than 95% of patients. Clinical recurrences were prevented in 40 to 75% of patients. Some patients experienced increased severity of the first episode following cessation of therapy; the severity of subsequent episodes and the effect on the natural history of the disease are still under study.

The safety and efficacy of orally administered acyclovir in the suppression of frequent episodes of genital herpes have been established only for up to 6 months. Chronic suppressive therapy is most appropriate when, in the judgement of the physician, the benefits of such a regimen outweigh known or potential adverse effects. In general, Zovirax Capsules should not be used for the suppression of recurrent disease in mildly affected patients. Unanswered questions concerning the human relevance of *in vitro* mutagenicity studies and reproductive toxicity studies in animals given very high doses of acyclovir for short periods (see Carcinogenesis, Mutagenesis, Impairment of Fertility) should be borne in mind when designing long-term management for individual patients. Discussion of these issues with patients will provide them the opportunity to weigh the potential for toxicity against the severity of their disease. Thus, this regimen should be considered only for appropriate patients and only for six months until the results of ongoing studies allow a more precise evaluation of the benefit/risk assessment of prolonged therapy.

Limited studies have shown that there are certain patients for whom intermittent short-term treatment of recurrent episodes is effective. This approach may be more appropriate than a suppressive regimen in patients with infrequent recurrences.

Immunocompromised patients with recurrent herpes infections can be treated with either intermittent or chronic suppressive therapy. Clinically significant resistance, although rare, is more likely to be seen with prolonged or repeated therapy in severely immunocompromised patients with active lesions.

CONTRAINDICATIONS: Zovirax Capsules are contraindicated for patients who develop hypersensitivity or intolerance to the components of the formulation.

WARNINGS: Zovirax Capsules are intended for oral ingestion only.

PRECAUTIONS: General: Zovirax has caused decreased spermatogenesis at high doses in some animals and mutagenesis in some acute studies at high concentrations of drug (see PRECAUTIONS — Carcinogenesis, Mutagenesis, Impairment of Fertility). The recommended dosage and length of treatment should not be exceeded (see DOSAGE AND ADMINISTRATION).

Exposure of Herpes simplex isolates to acyclovir *in vitro* can lead to the emergence of less sensitive viruses. The possibility of the appearance of less sensitive viruses in man must be borne in mind when treating patients. The relationship between the *in vitro* sensitivity of Herpes simplex virus to acyclovir and clinical response to therapy has yet to be established.

Because of the possibility that less sensitive virus may be selected in patients who are receiving acyclovir, all patients should be advised to take particular care to avoid potential transmission of virus if active lesions are present while they are on therapy. In severely immunocompromised patients, the physician should be aware that prolonged or repeated courses of acyclovir may result in selection of resistant viruses which may not fully respond to continued acyclovir therapy.

Drug Interactions: Co-administration of probenecid with intravenous acyclovir has been shown to increase the mean half-life and the area under the concentration-time curve. Urinary excretion and renal clearance were correspondingly reduced.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Acyclovir was tested in lifetime bioassays in rats and mice at single daily doses of 50, 150 and 450 mg/kg given by gavage. There was no statistically significant difference in the incidence of tumors between treated and control animals, nor did acyclovir shorten the latency of tumors. In 2 *in vitro* cell transformation assays, used to provide preliminary assessment of potential oncogenicity in advance of these more definitive life-time bioassays in rodents, conflicting results were obtained. Acyclovir was positive at the highest dose used in one system and the resulting morphologically transformed cells formed tumors when inoculated into immunosuppressed, syngeneic, weanling mice. Acyclovir was negative in another transformation system considered less sensitive.

In acute studies, there was an increase, not statistically significant, in the incidence of chromosomal damage at maximum tolerated parenteral doses of 100 mg/kg acyclovir in rats but not Chinese hamsters; higher doses of 500 and 1000 mg/kg were clastogenic in Chinese hamsters. In addition, no activity was found after 5 days dosing in a dominant lethal study in mice. In 6 of 11 microbial and mammalian cell assays, no evidence of mutagenicity was observed. At 3 loci in a Chinese hamster ovary cell line, the results were inconclusive. In 2 mammalian cell assays (human lymphocytes and L5178Y mouse lymphoma cells *in vitro*), positive responses for mutagenicity and chromosomal damage occurred, but only at concentrations at least 400 times the acyclovir plasma levels achieved in man.

Acyclovir has not been shown to impair fertility or reproduction in mice (450 mg/kg/day, p.o.) or in rats (25 mg/kg/day, s.c.). At 50 mg/kg/day s.c. in the rat, there was a statistically significant increase in post-implantation loss, but no concomitant decrease in litter size. In female rabbits treated subcutaneously with acyclovir subsequent to mating, there was a statistically significant decrease in implantation efficiency but no concomitant decrease in litter size at a dose of 50 mg/kg/day. No effect upon implantation efficiency was observed when the same dose was administered intravenously. In a rat peri- and postnatal study at 50 mg/kg/day s.c., there was a statistically significant decrease in the group mean numbers of corpora lutea, total implantation sites and live fetuses in the F_1 generation. Although not statistically significant, there was also a dose related decrease in group mean numbers of live fetuses and implantation sites at 12.5 mg/kg/day and 25 mg/kg/day, s.c. The intravenous administration of 100 mg/kg/day, a dose known to cause obstructive nephropathy in rabbits, caused a significant increase in fetal resorptions and a corresponding decrease in litter size. However, at a maximum tolerated intravenous dose of 50 mg/kg/day in rabbits, there were no drug-related reproductive effects.

Intraperitoneal doses of 320 or 80 mg/kg/day acyclovir given to rats for 1 and 6 months, respectively, caused testicular atrophy. Testicular atrophy was persistent through the 4-week postdose recovery phase after 320 mg/kg/day; some evidence of recovery of sperm production was evident 30 days postdose. Intravenous doses of 100 and 200 mg/kg/day acyclovir given to dogs for 31 days caused aspermatogenesis. Testicles were normal in dogs given 50 mg/kg/day, i.v. for one month.

Pregnancy: *Teratogenic Effects:* Pregnancy Category C. Acyclovir was not teratogenic in the mouse (450 mg/kg/day, p.o.), rat (50 mg/kg/day, s.c.) or rabbit (50 mg/kg/day, s.c. and i.v.). There are no adequate and well-controlled studies in pregnant women. Acyclovir should not be used during pregnancy unless the potential benefit justifies the potential risk to the fetus. Although acyclovir was not teratogenic in animal studies, the drug's potential for causing chromosome breaks at high concentration should be taken into consideration in making this determination.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Zovirax is administered to a nursing woman. In nursing mothers, consideration should be given to not using acyclovir treatment or discontinuing breastfeeding.

Pediatric Use: Safety and effectiveness in children have not been established.

ADVERSE REACTIONS — Short-Term Administration: The most frequent adverse reactions reported during clinical trials were nausea and/or vomiting in 8 of 298 patient treatments (2.7%) and headache in 2 of 298 (0.6%). Less frequent adverse reactions, each of which occurred in 1 of 298 patient treatments (0.3%), included diarrhea, dizziness, anorexia, fatigue, edema, skin rash, leg pain, inguinal adenopathy, medication taste and sore throat.

Long-Term Administration: The most frequent adverse reactions reported in studies of daily therapy for 3 to 6 months were headache in 33 of 251 patients (13.1%), diarrhea in 22 of 251 (8.8%), nausea and/or vomiting in 20 of 251 (8.0%), vertigo in 9 of 251 (3.6%), and arthralgia in 9 of 251 (3.6%). Less frequent adverse reactions, each of which occurred in less than 3% of the 251 patients (see number of patients in parentheses), included skin rash (7), insomnia (4), fatigue (7), fever (4), palpitations (1), sore throat (2), superficial thrombophlebitis (1), muscle cramps (2), pars planitis (1), menstrual abnormality (4), acne (3), lymphadenopathy (2), irritability (1), accelerated hair loss (1), and depression (1).

DOSAGE AND ADMINISTRATION: Treatment of initial genital herpes: One 200 mg capsule every 4 hours, while awake, for a total of 5 capsules daily for 10 days (total 50 capsules).

Chronic suppressive therapy for recurrent disease: One 200 mg capsule 3 times daily for up to 6 months. Some patients may require more drug, up to one 200 mg capsule 5 times daily for up to 6 months.

Intermittent Therapy: One 200 mg capsule every 4 hours, while awake, for a total of 5 capsules daily for 5 days (total 25 capsules). Therapy should be initiated at the earliest sign or symptom (prodrome) of recurrence.

Patients With Acute or Chronic Renal Impairment: One 200 mg capsule every 12 hours is recommended for patients with creatinine clearance $\leq$10 ml/min/1.73/m².

HOW SUPPLIED: Zovirax Capsules (blue, opaque) containing 200 mg acyclovir and printed with "Wellcome ZOVIRAX 200" - Bottles of 100 (NDC-0081-0991-55) and unit dose pack of 100 (NDC-0081-0991-56).

Store at 15°-30°C (59°-86°F) and protect from light.

---

*In controlled studies, recurrences were totally prevented for 4 to 6 months in up to 75% of patients.

Burroughs Wellcome Co., Research Triangle Park, North Carolina 27709

Copr © 1986 Burroughs Wellcome Co. All rights reserved. 86-ZOV-5

The Shealy Institute

A PRACTICAL SOLUTION
TO ONE OF YOUR MOST
FRUSTRATING PATIENT PROBLEMS

The Logical Extension of Your Professional Services —

- Our Institute pioneered the comprehensive "Pain Rehabilitation" concept.
- We introduced the pain control techniques most often used in rehabilitating chronic pain patients — facet rhizotomy, TENS, PENS, Biogenics®, and neurochemical profiling.
- We continue to be the recognized leader in the field. Our success is measured by your patient's ability to return to work, withdraw from drugs, and control pain intensity.
- Since we specialize in pain management, your patient returns to you after treatment. We are available as consultants at any time. We are the only *accredited* pain management clinic in the four state area. Our services are covered by most insurance companies and worker's comp programs.

Send for a free copy of
the Shealy Pain Report.
The Shealy Institute
3525 S. National
Springfield, MO 65807
417-882-0850
1-800-492-4171, Ext. 35

carf

CARF
A Nationally Accredited
Rehabilitation Facility

Cost Control

You and your physician —
Partners in reducing health care costs

Everyone talks about cost control these days. Here's a brochure that lets your patients know *they* can have a hand in keeping health care costs down.

"You and Your Physician" has been a best-seller for several years. It's the perfect size for a waiting room table or book rack, or as an enclosure with patient bills.

Cost: 10¢ each, or write for a free sample copy.

MSMA Communications
P.O. Box 1028
Jefferson City, MO 65102

Make checks payable to the Missouri State Medical Association.

LIBRIUM® ⓒⅣ
chlordiazepoxide HCl/Roche
5-mg, 10-mg, 25-mg capsules

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Management of anxiety disorders; short-term relief of anxiety symptoms, acute alcohol withdrawal symptoms, preoperative apprehension and anxiety. Usually not required for anxiety or tension associated with stress of everyday life. Efficacy beyond four months not established by systematic clinical studies. Periodic reassessment of therapy recommended

Contraindications: Known hypersensitivity to the drug

Warnings: Warn patients that mental and/or physical abilities required for tasks such as driving or operating machinery may be impaired, as may be mental alertness in children, and that concomitant use with alcohol or CNS depressants may have an additive effect. Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage. Withdrawal symptoms (including convulsions) reported after abrupt cessation of extended use of excessive doses are similar to those seen with barbiturates. Milder symptoms reported infrequently when continuous therapy is abruptly ended. Avoid abrupt discontinuation; gradually taper dosage.

Usage in Pregnancy: **Use of minor tranquilizers during the first trimester should almost always be avoided because of increased risk of congenital malformations as suggested in several studies. Consider possibility of pregnancy when instituting therapy; advise patients to discuss therapy if they intend to or do become pregnant.**

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically. Due to isolated reports of exacerbation, use with caution in patients with porphyria.

Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.

Usual Daily Dosage: Individualize for maximum beneficial effects. *Oral—Adults:* Mild and moderate anxiety disorders and symptoms, 5 or 10 mg *t.i.d.* or *q.i.d.*; severe states, 20 or 25 mg *t.i.d.* or *q.i.d.* *Geriatric patients,* 5 mg *b.i.d.* to *q.i.d.* (See Precautions.)

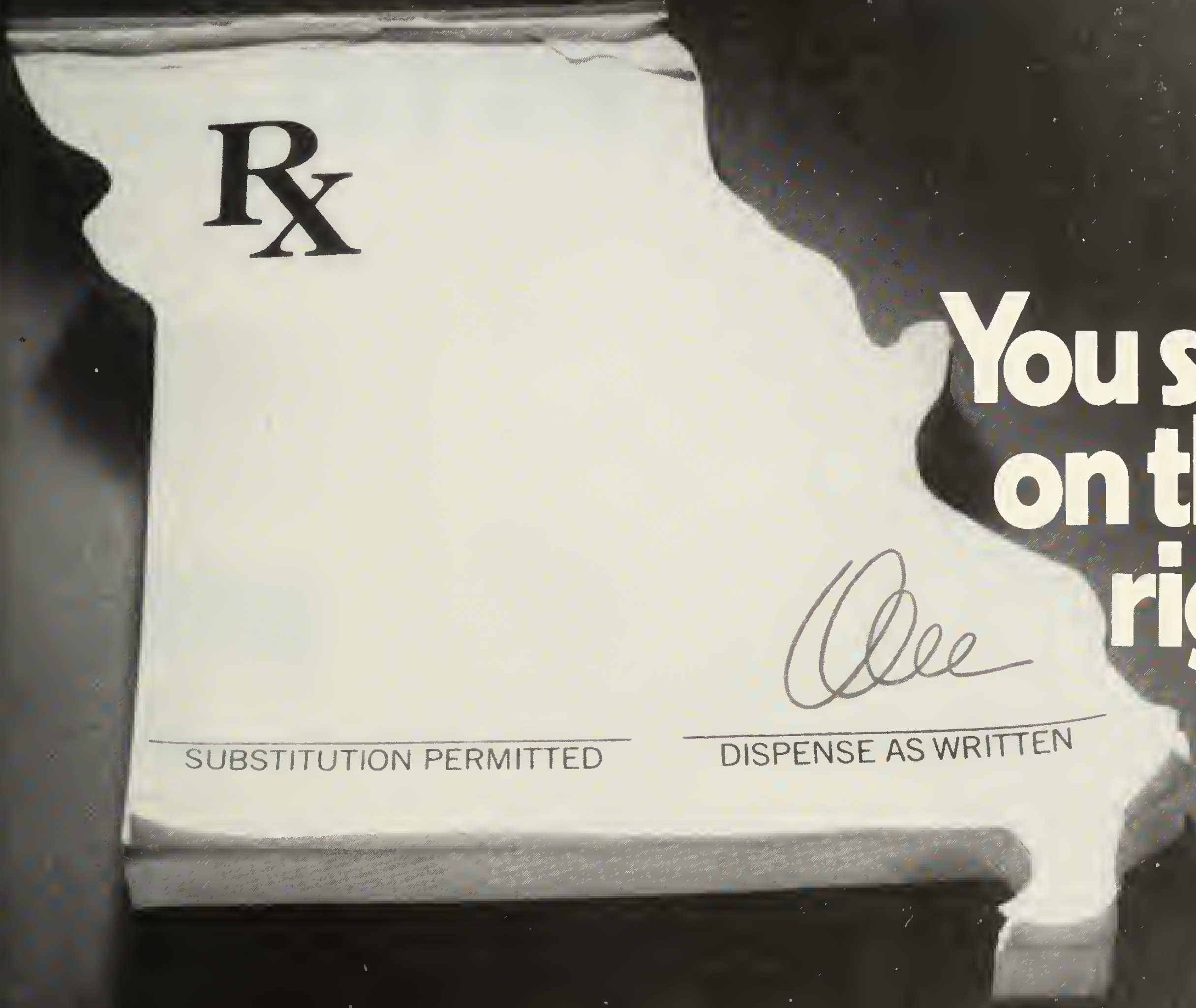
Supplied: Librium® (chlordiazepoxide HCl/Roche) *Capsules,* 5 mg, 10 mg and 25 mg—bottles of 100 and 500; Tel-E-Dose® packages of 100, available in boxes of 4 reverse-numbered cards of 25, and in boxes containing 10 strips of 10. Libritabs® (chlordiazepoxide/Roche) *Tablets,* 5 mg and 10 mg—bottles of 100 and 500; 25 mg—bottles of 100. With respect to clinical activity, capsules and tablets are indistinguishable.

P I 0286

ROCHE®
Roche Products Inc.
Manati, Puerto Rico 00701

In Missouri, when you decide to prescribe Librium,

To protect your decision...


Rx
SUBSTITUTION PERMITTED
DISPENSE AS WRITTEN

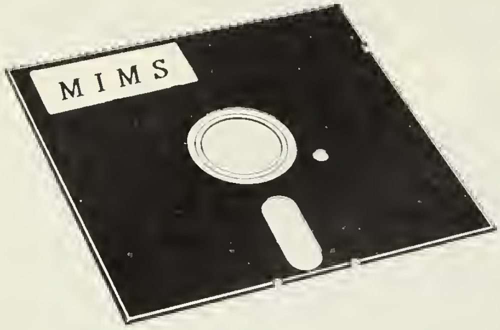
You sign on the right.

Librium® 5-mg, 10-mg, 25-mg capsules
brand of
chlordiazepoxide HCl/Roche Ⓘⓥ

nobody does it better!

ROCHE® Copyright © 1987 by Roche Products Inc. All rights reserved.

Please see adjacent page for a summary of product information.



SMART SOFTWARE IS GOOD MEDICINE.

If your practice suffers from poor cash flow and slow insurance payments, we've got the cure: the Medical Information Management System (MIMS).

MIMS is IBM-compatible, multi-user software designed in close cooperation with medical professionals to create powerful features that answer your needs.

- Files Insurance Claims Electronically
- Bills Patients Immediately
- Tracks Inventory and Profitability
- Schedules Patients and Keeps Records

With MIMS' electronic claims filing feature alone, you can see insurance payments in as little as four days.

The Medical Information Management System. It's good medicine for the medical practice. Call us toll-free for our informative brochure.

1-800-643-8365

MIMS
Medical Information Management System

D.O.C., Inc.
P.O. Box 2476
Little Rock, Arkansas 72203

DO YOU NEED...

Current information about cancer and its treatment?

Citations and abstracts of cancer research?

Quick access to these resources?

Ellis Fischel State Cancer Center can help you.

We will search electronic databases for cancer treatment information at no cost to you. We provide on-line searches of three databases: Physician Data Query (PDQ), CANCERLIT and MEDLINE.

PDQ was created by the National Cancer Institute to give physicians immediate access to up-to-date reports on cancer treatment protocols, statistics, diagnostic aids and prognosis information.

CANCERLIT offers 600,000 citations of published cancer literature.

MEDLINE is the computer version of *Index Medicus* and includes articles not listed in the printed version.

Ellis Fischel will provide citations at no cost. A modest charge for abstracts will be necessary. For more information about these databases and what they can do for you, call Ellis Fischel State Cancer Center: 314-875-2100
or toll-free
1-800-392-2545

ELLIS FISCHEL
State Cancer Center

115 Business Loop 70 West, Columbia, Missouri 65203

New Members

■ **Imad M. Al-Basha, M.D.,** HSC-UMC, One Hospital Drive, Columbia, MO 65212, has become a member of the Boone County Medical Society. Dr. Al-Basha received his preliminary education at the American University of Beirut-Lebanon and obtained his medical degree at the American University of Beirut School of Medicine in 1980. He completed his residency at the University of Missouri Hospital and Clinics, Columbia, MO. He specializes in psychiatry.

■ **Jacquelyn B. Dilworth, M.D.,** Washington University Div. of Derm., Box 8123, 660 S. Euclid, St. Louis, MO 63110, has become a member of the St. Louis Metropolitan Medical Society. Dr. Dilworth received her preliminary education at Howard University College of Liberal Arts and obtained her medical degree at the Howard University College of Medicine in 1985. She is completing her residency at Barnes Hospital, St. Louis, MO. She specializes in dermatology.

■ **William R. Gerber, M.D.,** 3900 S. Grand, St. Louis, MO 63118, has become a member of the St. Louis Metropolitan Medical Society. Dr. Gerber received his preliminary education at St. Louis University and Syracuse University and obtained his medical degree at St. Louis University in 1976. He completed his residency at Walter Reed Hospital, Washington, D.C. He specializes in obstetrics/gynecology.

■ **John H. Helzberg, M.D.,** 6724 Troost, #710, Kansas City, MO 64131, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Helzberg received his preliminary education at Stanford University and obtained his medical degree at the University of Rochester in 1980. He completed his residency at the University of Kansas Medical Center, Kansas City, KS. He specializes in internal medicine/gastroenterology.

■ **J. Humberto Hernandez, M.D.,** R.R. 3, Box 99, California, MO 65018, has become a member of the Moniteau County Medical Society. Dr. Hernandez received his preliminary education at the Vocational School, Guadalajara, Mexico and obtained his medical degree at the Universidad Autonowa de Guadalajara in 1979. He completed his residency at Lutheran Hospital, St. Louis, MO. He specializes in family medicine.

■ **Robert H. Lund, Jr., M.D.,** 1034 S. Brentwood, St. Louis, MO 63117, has become a member of the St. Louis Metropolitan Medical Society. Dr. Lund received his preliminary education at Williams College and obtained his medical degree at Washington University School of Medicine in 1979. He completed his residency at St. Paul Ramsey Medical Center, St. Paul, MN. He specializes in family medicine.

■ **Rickey L. McGath, M.D.,** P.O. Box 220, 636 Lester, Poplar Bluff, MO, 63901, has become a member of the Butler County Medical Society. Dr. McGath received his preliminary education at the University of Missouri-St. Louis and obtained his medical degree at the University of Missouri-Kansas City in 1984. He completed his residency at the University of Missouri, Kansas City, MO. He specializes in family medicine.

■ **Mark A. Mitchell, M.D.,** 414 E. 12th Street, Missouri Health Dept., Kansas City, MO 64106, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Mitchell received his preliminary education at the University of Missouri-Kansas City and obtained his medical degree at UMKC in 1981. He completed his residency at Johns Hopkins University, Baltimore, MD. He specializes in preventive medicine/public health.

■ **Henry D. Mollman, M.D.,** 224 S. Woods Mill, Suite 610, Chesterfield, MO 63017, has become a member of the St. Louis Metropolitan Medical Society. Dr. Mollman received his preliminary education at the University of Missouri-St. Louis and obtained his medical degree at St. Louis University School of Medicine in 1981. He completed his residency at the University of Minnesota, Minneapolis, MN. He specializes in neurosurgery.

■ **Peter A. Namnum, M.D.,** Suite 303, 6420 Prospect, Kansas City, MO 64132, has become a member of the Metropolitan Medical Society of Greater Kansas City. Dr. Namnum received his preliminary education at Clark University and obtained his medical degree at Yale University School of Medicine in 1982. He completed his residency at Barnes Hospital/Washington University, St. Louis, MO. He specializes in pulmonary medicine.

■ **Karen H. Rice, M.D.,** 1505 Southwest Blvd., Jefferson City, MO 65101, has become a member of the Cole County Medical Society. Dr. Rice received her preliminary education at Wellesley College and obtained her medical degree at Washington University School of Medicine in 1982. She completed her residency at Barnes Hospital, St. Louis, MO. She specializes in internal medicine.

■ **Marlys E. Schuh, M.D.,** 456 N. New Ballas Road, Creve Coeur, MO 63141, has become a member of the St. Louis Metropolitan Medical Society. Dr. Schuh received her preliminary education at the University of North Dakota and obtained her medical degree at Washington University School of Medicine in 1979. She completed her residency at Jewish Hospital, St. Louis, MO. She specializes in general surgery.

■ **Stephen M. Siu, M.D.,** 200 St. Mary's Medical Plaza, Suite 103, Jefferson City, MO 65101, has become a member of the Cole County Medical Society. Dr. Siu received his preliminary education at Washington University and obtained his medical degree at the University of Missouri-Columbia School of Medicine in 1984. He completed his residency at the University of Missouri Hospital and Clinics, Columbia, MO. He specializes in pediatrics.

■ **Mohan R. Hindupur, M.D.,** 1417 Village Drive, St. Joseph, MO 64506, has become a member of the Buchanan County Medical Society. Dr. Hindupur received his preliminary education at the Government HR SEC School, Raykachoti, India and obtained his medical degree at Rangaraya Medical College, Kakinada, India in 1973. He completed his residency at Columbus Hospital, Chicago, IL. He specializes in internal medicine/cardiology.

■ **Georgia S. Jawaid, M.D.,** PMG-3900 S. Grand, St. Louis, MO 63118, has become a member of the St. Louis Metropolitan Medical Society. Dr. Jawaid received her preliminary education at the University of Santo Tomas, Manila, Philippines and obtained her medical degree at the University of Santo Tomas in 1972. She completed her residency at Iowa Methodist Medical Center, Raymond Blank Memorial Children's Hospital. She specializes in pediatrics.

- **Richard L. Kofkoff, M.D.**, 12255 DePaul Drive, Bridgeton, MO 63044, has become a member of the St. Louis Metropolitan Medical Society. Dr. Kofkoff received his preliminary education at Brown University and obtained his medical degree at New York University School of Medicine in 1980. He completed residency programs at Washington University/Barnes Hospital, St. Louis, MO and the University of California. He specializes in plastic surgery.

- **William K. LaFoe, M.D.**, 25 Doctor's Park, Cardiovascular Consultants, Cape Girardeau, MO 63701, has become a member of the Cape Girardeau County Area Medical Society. Dr. LaFoe received his preliminary education at Louisiana State University and obtained his medical degree at Louisiana State University in 1982. He completed his residency at the University of Arkansas, Little Rock, AR. He specializes in cardiovascular diseases.

- **Susan L. Laningham, M.D.**, 5301 Faraon St., St. Joseph, MO 64506, has become a member of the Buchanan County Medical Society. Dr. Laningham received her preliminary education at the University of Missouri-Kansas City and obtained her medical degree from UMKC in 1984. She completed her residency at Oklahoma State Teaching Hospitals. She specializes in internal medicine.

- **Rivadh J. Tellow, M.D.**, 741 N. Main, Sikeston, MO 63801, has become a member of the SEMO County Medical Society. Dr. Tellow obtained his medical degree at the Medical School, Basrah University, Basrah, Iraq in 1974. He completed his residency at Wayne State University, Detroit, MI. He specializes in neurology.

- **Craig M. Watts, M.D.**, Western Missouri Medical Center, Burkharth Road, Warrensburg, MO 64093, has become a member of the Johnson County Medical Society. Dr. Watts received his preliminary education at Westminster College and obtained his medical degree at the Universidad Autonoma de Guadalajara in 1977. He completed his residency at Wayne State University, Detroit, MI. He specializes in radiology.

- **Karen B. Webb, M.D.**, 1402 S. Grand Blvd., St. Louis, MO 63104, has become a member of the St. Louis Metropolitan Medical Society. Dr. Webb received her preliminary education at Indiana University and obtained her medical degree at the Indiana University Medical School in 1976. She completed her residency at the University of South Florida, Tampa, FL. She specializes in internal medicine.

New Student Members

Washington University

Caroline Balet
Jonathan D. Boniuk
Richard A. Cordle
Devnandini R. Cruz
Daniel J. Donovan
Stephen M. Foster
Ahmed Ghouri
Ashok V. Gokhale
Norman W. Gross
Mark A. Hassen
Mary S. Landry
Adam T. Lottick
Mark J. Lucarelli
Robyn E. McCarty
Jerome A. McTague
Chandra Nath Prasad
Robert C. Quackenbush
Ivan Tarle
Clifford K. Weber

University of Missouri-Kansas City

Thomas F. Jones
Immanuel O. Uketui

Univeristy of Missouri-Columbia

Karie F. Anderson
Kelly J. Bain
Lorie M. Austin
Laurie A. Barozinsky
Michael J. Bateman
Varsha Bhatt
Cynthia K. Briggs
Michael J. Carney
Nancy A. Clare
David W. Chien
Wai E. Chiu
Mark T. Cox
Lynn M. Daniels
Amy K. Davis
Thomas E. Davis
K. Rachelle Derrough
Deann E. DeWitt
Michelle F. Dolgin
Jennifer A. Dye
Mark C. Eddy
James T. Elliott
Steve A. Ellis
Patrick K. Ellison
Christine R. Faser
Bev J. Fingerhood
Roger L. Fink
Robert F. Fraser II
Mark Freter
Rex A. Gallemore
Sharon George
Timothy A. Hall
Sanjay Havaldar
Timothy M. Herr
Brenda A. Hettinger
Neal A. Honickman
Stephen H. Hooper
Barbara J. Houk
William S. Hughes
Justin E. Jones
Anthony J. Kaczmarek
Thomas S. Kiser
Stanley L. Librach
David C. Lowe
James A. Lund
Thomas J. McCormack
Joseph V. Meyer
Kimberly D. Morris
Kristin A. Morse
Peggy Murphy
Bert L. O'Neal
Mark A. Pfitzner
Lora J. Plottner
Henry A. Pool
Troy D. Potter
Jonathan W. D. Richardson
Richard T. Riegel
Bradley D. Robison
Laure A. Rosenberger
F. Paul Sajben
Mako Shimoda
Connie D. Simmons
Luke D. Sloan
Julie Stansfield
Melissa A. Stopp
Mary A. Struckhoff
Bobby O. Tackitt II
Cyd C. Thomas
Lisa A. Thomas
Brian D. Toalson
James T. Vandenberg
Kendall Warden
Rebecca S. Watt
Karen L. Weismantle
Kaoru Williams
Clinton R. Wright
Thomas F. Wright
Geoffrey J. Yule

ONE DAY, YOU WILL EITHER SELL YOUR PRACTICE OR GIVE IT AWAY.

If you decide to sell or merge your practice, you will want someone with our kind of experience.

If you prefer to give away all that you've built, you can handle that without our help.

In either case, start your plan at least a year in advance.

Prospective buyers and sellers will be meeting with us, in confidence, at the Annual Convention of the Missouri State Medical Association, at the Hyatt Regency in Kansas City, March 17-20.

If you plan a successful change in 1988, we need to be working with you at least a month before the Convention.

FirstCare®
MEDICAL SERVICES

health resources®
Box 14188/Kansas City, Mo. 64152

(816) 587-0920

• Medical Practice Sales • Physician Relocation • Professional Marketing

More than 70 affiliated offices throughout the United States and international representatives in England, Germany and Australia.

©Copyright 1987, Health Resources, Ltd. and First Care, Inc.

THERE'S NO
SUCH DISEASE AS
MUSCULAR DYSTROPHY.

It's true. Because "muscular dystrophy" is the term for a *group* of twelve diseases—and no one disorder goes by that name.

Other facts about muscular dystrophy might surprise you, too. For one thing, the diseases aren't restricted to children. Anyone can be stricken, at any time.

For another thing, the Muscular Dystrophy Association battles not just the twelve muscular dystrophies, but twenty-eight other neuromuscular diseases, too.

At MDA, we're striving to put an end to all the devastating disorders you used to think of as muscular dystrophy.

And one day—we're determined—this chair will be empty for real.

MDA

Muscular Dystrophy Association, Jerry Lewis, National Chairman

Medical School News

St. Louis University

■ **Vallee L. Willman, M.D.**, professor and chairman of the department of surgery at St. Louis University School of Medicine, recently received the Distinguished Service Award, the highest honor awarded by the American College of Surgeons.

In presenting Dr. Willman with the award, the college cited his "vigorous participation in leading medical and surgical societies . . . as well as chairmanship of important counciliar bodies . . . and in consultancy to governmental groups domestic and international. . . ." The citation reflects the national and international scope of Dr. Willman's commitment to disseminating his medical knowledge.

Dr. Willman, who was an Ellen McBride fellow in surgery in 1957, graduated from St. Louis University School of Medicine in 1951. He began his post-doctoral training at the Philadelphia General Hospital in 1951, and completed his residency at the St. Louis University Group of Hospitals in 1956. He became a senior instructor at that same institution in 1957 and has served as professor of surgery since 1963. In 1973 he was honored with the St. Louis Medical Society Gold Medal and Certificate of Merit Award.

A prolific writer who has contributed immeasurably to the field of surgical education, Dr. Willman has authored or co-authored more than 250 publications, concentrating primarily on cardiovascular disease and cardiac transplantation surgery.

Dr. Willman became a fellow of the American College of Surgeons in 1961, and has been an active participant in college activities for over 25 years. He also holds membership in numerous national and regional medical associations and has been entrusted with leadership positions in several of these organizations. Dr. Willman is also a member of the Phi Eta Sigma, Phi Beta Kappa, and Alpha Omega Alpha honorary societies.

In addition to his professional activities, Dr. Willman has offered his services to other agencies, including the National Heart, Lung and Blood Institute and the American Heart Association.

■ On November 6, **Dwight C. McGoon, M.D.**, professor of surgery at the Mayo Clinics in Rochester, Minn., delivered the first Vallee L. Willman, M.D., Lecture at St. Louis University Medical Center.

The Willman Lectureship was established by The Freund Foundation in honor of Dr. Willman, who has been chairman of the department of surgery at St. Louis University School of Medicine since 1969. Dr. Willman has been a leader in the community as a physician, researcher and educator. He pioneered both open heart surgery and heart transplantation in St. Louis, and in the early 1970s, he participated in a U.S.-U.S.S.R. Cooperative Health Program on Heart Disease. In this program, he visited the Soviet Union and hosted delegations of physicians and scientists from the U.S.S.R.

Dr. McGoon's lecture was titled "Cardiac Surgery in Context." An internationally-respected surgeon, Dr. McGoon has four decades of experience in cardiothoracic surgery. He has served on editorial boards for numerous medical journals and is the author of more than 400 scientific books and papers.

■ **Raj Nakra, M.D.**, assistant professor in the department of psychiatry at St. Louis University School of Medicine, has received a grant of $78,000 from Ayerst Laboratories.

The award will be used to study the effects and safety of vinpocetine, an experimental drug for Alzheimer's disease patients. "Vinpocetine works by increasing blood flow to the brain, reviving areas that are particularly starved for nutrition," said Dr. Nakra. "While it increases blood flow to the brain, it has not affected blood pressure or heart rate in patients in this study."

■ A husband-wife research team at St. Louis University Medical Center has been awarded a four-year, $520,226 grant by the National Institute of Child Health and Human Development. **Thomas S. Ruh, Ph.D.**, and **Mary F. Ruh, Ph.D.**, both professors of physiology, will use the grant to continue their research on the role of estrogens and antiestrogens in the uterus.

The Drs. Ruh have previously collaborated on studies on antiestrogens, and pioneered the study of how these drugs affect cancer. Earlier this year, they received a three-year, $397,987 grant from the National Cancer Institute to study antiestrogen action in human breast cancer cells.

■ **Mark Knuepfer, Ph.D.**, assistant professor of pharmacology at St. Louis University School of Medicine, has received a $24,747 grant from the Missouri Affiliate of the American Heart Association. The funding will be used to begin a study investigating the role of renal nerves in blood pressure control.

Evidence suggests that the kidneys send electrical signals to the brain that might trigger hypertension. Dr. Knuepfer's research will examine blood pressure and blood flow responses to stimulation of these renal nerves.

■ **Maurice Green, Ph.D.**, professor and chairman in the Institute for Molecular Virology at St. Louis University Medical Center, has been awarded a two-year, $160,000 grant from the American Cancer Society. He will use the grant to continue his research on the role of human papillomaviruses in cervical cancer.

Worldwide studies have shown that sexually transmitted diseases caused by human papillomaviruses have reached epidemic proportions. For example, the viruses are much more common than diseases involving herpes simplex viruses. Strong evidence links specific types of human papillomaviruses with several types of urogenital cancer, especially cervical cancer.

Dr. Green and his colleagues will research the relationship of these viruses to cancer. It is anticipated that the research will lead to an understanding of the role of viral genes and cellular and environmental factors that cause cervical cancer. Such basic information is vital to the development of a prevention or cure for the disease.

■ **Paul M. Loewenstein**, research associate in the Institute for Molecular Virology, and **Allan J. Jacobs, M.D.**, director of the division of gynecologic oncology in the department of obstetrics and gynecology at St. Louis University Medical Center, will assist Dr. Green in his research.

University of Missouri-Kansas City

■ **Dean James J. Mongan, M.D.,** continued in the footsteps of tradition Oct. 18, welcoming UMKC School of Medicine's class of first-year students at the school's annual convocation ceremony. It was Dr. Mongan's first convocation since accepting the deanship, and, as a Year-1 dean, Dr. Mongan told the incoming class, he feels a special kinship with this class of Year-1 students.

In presenting the keynote address, Dean Mongan gave the students some worthwhile advice in pursuing their educations and in treating patients. He also planted his own personal bias with the students: "I hope you will carry over into your careers, a willingness to dedicate some portion of your professional life to the needs of indigent patients, either through voluntarily providing services, or by taking an active role in your community to assure that services are appropriately available. A physician's commitment to healing can and must apply to the entire population."

■ **Dick Man,** a second-year student at UMKC School of Medicine, was presented with the Richard T. Garcia Memorial Award as part of the school's Oct. 18 convocation ceremony. Richard T. Garcia was an outstanding student who cared deeply about others and was sensitive to the needs of his fellow classmates. After his death, his family established the annual award for a second-year student, who in their first year of medical school, exemplified those traits.

■ **Robert L. Blanc, Ph.D.,** associate professor of medicine and curriculum development at UMKC School of Medicine, was presented with the school's first Excellence in Medical Education Award. The award was established by an anonymous donor who felt that outstanding teaching efforts should be recognized annually. Dr. Blanc was presented with the award at convocation on Oct. 18.

■ The American Academy of Family Physicians (AAFP) recently bestowed one of its highest awards on **Thomas A. Nicholas, M.D.,** professor and chairman of Community and Family Medicine at UMKC School of Medicine and Truman Medical Center-East. Dr. Nicholas was presented with the Thomas W. Johnson Award for outstanding contribution to family practice education at the AAFP's annual meeting in San Francisco.

Dr. Nicholas has worked consistently to promote family practice and family practice residency funding throughout the country. He has been intimately involved in development of residency programs and monitoring the quality of family practice education. Dr. Nicholas currently serves as president of the American Board of Family Practice, the certifying organization for family physicians.

■ **Mark Ost, M.D.,** clinical professor of Pathology and Ophthalmology at UMKC School of Medicine, on Oct. 6 was awarded Baptist Medical Center's Herbert H. Virden, M.D., Dedicated Physician Award. Along with a plaque, Dr. Ost was presented with a congratulatory letter from **President Ronald Reagan.** Dr. Ost, an ophthalmic pathologist, has been teaching fifth-year UMKC medical students for more than 10 years. He is a former Year-1 docent, and spent many years as a member of the Council on Selection.

■ For the third consecutive year, a UMKC School of Medicine student has won the Mobay Corp.'s College Essay Award. **Paul E. "Chip" Zachary** received the 1987 award for his paper, "The Insulin Receptor: Structure and Function." **Bob Yang,** Ph.D., associate professor of Basic Life Sciences, has been faculty sponsor for all three recipients.

■ **Nasreen Syed,** a fourth-year UMKC School of Medicine student, is the 1987 winner of the school's John Hunter Anatomy Award. The award goes to the student who scores highest on the anatomy chairman's examination on their first regular attempt. Nasreen received a book award from Harper and Row, and a certificate. John Hunter was an eighteenth-century anatomist.

The University of Missouri-Columbia

■ **Susan H. Allen, Ph.D., M.D.,** fellow in the division of endocrinology and metabolism, has been chosen as one of the nation's four American College of Physicians Teaching and Research Scholars. Each participating medical institution may only submit one applicant for the honor. The College then selects physicians with interest and aptitude in teaching and research who have demonstrated qualities indicating continued development based on past performance during undergraduate and postdoctoral training. The award includes an annual stipend for three consecutive years.

■ **Martin Alpert, M.D.,** associate professor of medicine, was recently selected to the Central Society for Clinical Research. Earlier this year, Dr. Alpert was awarded a $4,000 Burlington Northern Foundation Faculty Achievement Award for "outstanding and unusually meritorious teaching."

■ **Giulio Barbero, M.D.,** professor and chairman of child health, was the invited speaker at the second Latin American Cystic Fibrosis Congress in Belo Horizone, Brazil, last summer. He also was invited to present "Conceptual Issues in Education and Management of Chronic Illness: The Concept of Team Care in Pediatric Residency Training Programs" at the Surgeon General's Conference earlier this year.

■ **Karen Bennett, Ph.D.,** has joined the molecular biology program as an assistant professor of microbiology. Dr. Bennett, who recently completed a postdoctoral fellowship at the Carnegie Institution in Washington, D.C., researches germ plam of nematodes and microinjection of P-granule antibodies.

■ **James Biddle,** third-year medical student, recently won first place in the Bernard Baruch Essay Contest for Medical Students sponsored by the American Congress of Rehabilitation Medicine. Mr. Biddle won a cash prize and a medal for his essay titled "Myofascial Trigger Points — Correlating Treatments and Theories." He wrote the essay as part of the department of physical medicine and rehabilitation's Summer Clinical Trainee Program designed to introduce students to physical medicine.

■ **Mark A. Greenfield, M.D.,** third-year resident, was named the second recipient of the Kenneth Keown Outstanding Anesthesiology Resident Physician Award earlier this year. The award was made possible through memorial contributions honoring **Kenneth Keown, M.D.,** professor emeritus and founder of the department of anesthesiology, who died in 1985.

■ **Mary Kay Gummerloch, M.D.,** formerly with the University of Oregon, has joined the School of Medicine as an assistant professor of neurosurgery. Dr. Gummerloch's research interests include cerebral vascular disease and blood-brain barrier chemotherapy.

- **Mary Alice Helikson, M.D.**, and **Michael Metzler, M.D.**, both assistant professors of surgery, received certificates of special competence in critical care from the American Board of Surgery earlier this year.

- **Raymond Hodges, M.D.**, has been named professor emeritus of pathology. Dr. Hodges joined the faculty in 1972.

- **Paul E. Kaplan, M.D.**, professor and chairman of the department of physical medicine and rehabilitation, has just been awarded a $270,000 three-year grant to expand the department's training programs. The University's grant proposal was ranked number one in the nationwide competition by the U.S. Department of Education — Office of Special Education and Rehabilitative Service which awarded the long-term grant.

Dr. Kaplan says the grant money will expand the department's programs in training both resident and academic career physiatrists and help the department introduce more undergraduate medical students to the concepts and techniques of rehabilitation medicine. The grant will allow the department to increase the number of resident positions, expand the Summer Clinical and Research Trainee Program, increase participation in the Elective Clinical Rotation Program and add the new Academic Career Training Program for Board-Certified Physiatrists.

- **Zuhdi Lababidi, M.D.**, professor of child health, has pioneered a new variation of coarctation angioplasty which saved the life of a premature infant at the University of Missouri-Columbia Hospital and Clinics in October. Dr. Lababidi pioneered coarctation angioplasty in infants in 1982; however, in this case the normal method could not be used because of the small size of the two-pound baby. Instead of inserting the balloon catheter into a blood vessel in the groin of the infant, Dr. Lababidi passed the catheter through the umbilical artery. The catheter had to make a 180-degree turn before reaching the blocked aorta. This procedure which has never been tried before was successful and the baby's prognosis is good.

- **Jerry C. Parker, Ph.D.**, associate clinical professor of medicine and psychiatry at the School of Medicine and chief of psychology service at Harry S. Truman Veteran's Administration Hospital, has found that a person's emotional status and understanding of pain can make a big difference in controlling that pain.

In a study of 83 rheumatoid arthritis patients, Dr. Parker found that training in how pain works, how to reduce stress and how to adjust to lifestyle changes made a significant difference in the pain those patients felt and their sense of control over that pain.

- **Judith H. Miles, M.D., Ph.D.**, associate professor of child health and director of the division of medical genetics, has been elected to the American Board of Medical Genetics. Dr. Miles was one of three elected to the Board this year which is the national accrediting board for all subspecialties in genetics. She was elected to serve a five-year term.

- **Charles Puckett, M.D.**, professor and chief of the division of plastic and reconstructive surgery, was installed as president-elect of the American Association of Hand Surgery last month.

- **David M. Witten, M.D.**, has been named professor emeritus of radiology. Dr. Witten, who came to the University in 1982, served as the department's chairman.

- **Calvin W. Woodruff, M.D.**, has been named professor emeritus of child health. Dr. Woodruff joined the department in 1965.

Washington University

- Washington University School of Medicine has been designated as an AIDS Clinical Studies Group (CSG) by the National Institutes of Health and will receive $5.5 million over a five-year period to develop better AIDS treatment methods, conduct basic and clinical research, and improve public and physician education.

NIH's National Institute of Allergy and Infectious Diseases announced funding of 17 CSGs at a total five-year cost of approximately $100 million. The CSG program is designed in part to extend the clinical testing of promising AIDS therapies to many patients in a much wider geographic area than was previously possible. In addition, physicians near these new CSGs will now have access to experienced clinicians who are actively involved in AIDS patient care, in AIDS basic research and in the evaluation of new AIDS treatments.

At least 20 Washington University physicians and researchers will participate in the new center. It will include a set of core laboratories offering the latest diagnostic and prognostic techniques in the evaluation of AIDS patients.

The number of AIDS patients in the St. Louis area alone is expected to rise to somewhere between 2,000 and 4,000 by 1991, according to the new CSG's co-principal investigator **Lee Ratner, M.D., Ph.D.**, an assistant professor of medicine. Ratner is a leading AIDS researcher whose experiments with AIDS virus DNA have shown which of the virus' genes are involved in infecting and in killing human immune system cells.

In addition to patient care and research, the new center will promote physician and public education by assisting existing agencies in public outreach programs, sponsoring special continuing education courses for healthcare professionals, and serving as a regional resource for information on AIDS.

"The new center will combine the testing of new drugs for the treatment of AIDS with research efforts and an educational outreach program," says **Gerald Medoff, M.D.**, a professor of medicine and of microbiology and immunology who is the center's other co-principal investigator. "Our efforts will be to provide the best and most up-to-date treatment for patients with AIDS, to develop new forms of therapy, and to educate physicians in the surrounding community so that they can better care for their own patients." Medoff is an infectious diseases specialist who is expert in the diagnosis and treatment of the fungal and bacterial infections that are common in AIDS patients.

Patients and physicians seeking information or medical consultations from the staff of the Washington University CSG are invited to use a special phone line established by the center. The number is 314-454-0058 and the hours of phone service are 9 a.m. to 12 p.m., Monday through Friday.

- Washington University School of Medicine in St. Louis has been named one of the top 10 medical schools in the country by *U.S. News & World Report*.

The St. Louis medical school was rated sixth in the magazine's survey.

U.S. News asked deans at 144 of the nation's medical schools to select the 10 schools offering the best programs in medicine. They were asked to consider the quality of the faculty, strength of the curriculum and professional preparation of students, as well as placement of graduates in positions that help improve the medical profession and its public. Some 32% of the deans responded to the survey. Harvard Medical School — the choice of 85 percent of the medical school deans — was named the best in the country. The other top medical schools, in order of ranking, include Johns Hopkins, the University of Pennsylvania, the University of California-San Francisco, Yale University, Washington University, Stanford University, Duke University, Columbia University and Cornell University Medical Center.

- Construction of a $14 million medical library, designed to become one of the most advanced biomedical information centers in America, is underway at Washington University School of Medicine in St. Louis.

Scheduled for completion in Fall 1989, the new facility will offer three times more space than the current library and provide state-of-the-art information management to support research, teaching, and patient care.

Financing for the proposed eight-level, 113,000 square-foot structure was provided in large part by a $10 million gift from an anonymous benefactor. The balance of the funds will be sought from corporations, foundations, alumni, and friends of the university.

"We now face the exciting opportunities afforded by an important facility that will become the hub of the entire medical school complex," says library committee chairman **Bernard Becker, M.D.**, professor and head of ophthalmology. "The new library will be a place where all diverse components of this great medical center can come together to gain and share knowledge."

- The Washington University School of Medicine has joined with Children's Hospital in a project that will provide day care for the children of medical school employees.

The joint venture with Children's Hospital has made it possible for the hospital to expand Child Development Center, the not-for-profit service it operates at 5461 Highland Park Drive to also occupy the building next door, at 5457 Highland Park Drive, an expansion that has created an additional 100 openings.

Parents can enroll children aged 6 weeks through 2 years in the infant/toddler program, and those aged 3 through 6 years in the preschool/kindergarten program. Rates vary, because children are enrolled on either a full- or part-time basis, but compare favorably to most area centers with similar features. Hours are 6 a.m.-6 p.m. Monday through Friday.

The center is state licensed, and is the first hospital-sponsored child development center in the nation to receive voluntary accreditation for program excellence. All members of the staff have at least an associate degree in child development or the equivalent in teaching experience. Because the center is a teaching facility, students in early childhood education and pediatric nursing also participate in the program. The ratio of adults to children ranges from one adult for each four infants and toddlers to one adult for eight kindergartners.

- **John O. Holloszy, M.D.**, professor of internal medicine and director of the applied physiology section in the Department of Internal Medicine at Washington University School of Medicine in St. Louis, has been honored for his scientific contributions by receiving MERIT status for his latest grant.

The grant for $726,243 is from the National Institute on Aging, part of the National Institutes of Health (NIH).

Holloszy's research has provided information regarding the biochemical basis for the increase in muscular endurance that occurs in response to exercise training, and has provided new insights regarding the roles of exercise in the maintenance of health and the treatment of a number of the degenerative diseases of middle and old age, including ischemic heart disease, type II diabetes and high blood pressure. He currently is trying to determine the role of physical inactivity in the deterioration in functional capacity associated with aging and the reversibility of these changes by means of exercise training.

Holloszy is on staff at Barnes Hospital. He received his medical degree from Washington University School of Medicine in 1957 and has been a faculty member since 1963.

- Researchers from throughout the world gathered in St. Louis Oct. 14-16 to discuss factors that predict adult behavior and psychopathology. **Lee N. Robins, Ph.D.**, professor of sociology in psychiatry at Washington University School of Medicine in St. Louis, organized the conference.

Authorities presented the latest findings on topics such as the long-term effects of parental absence; adolescent drug abuse and emotional and behavioral disorders; the outcomes of institution-reared men; the index of risk for major psychopathology in adulthood; and the adult adjustment of children of psychiatric patients.

Among the distinguished authorities who presented papers were **Michael Rutter, M.D.**, head of child psychiatry at the University of London; **David Magnusson, Ph.D.**, from the University of Stockholm; and **Denise Kandel, Ph.D.**, a sociologist from the Department of Psychiatry at Columbia University.

You read
this space
and so did
6,000
other
physicians.
Place your
advertisement
today!
Call
314/636-5151

Physician's Recognition Awards

Fifty-two MSMA members qualified for the MSMA-AMA Physician's Recognition Award during September 1987. The award, presented by the Missouri State Medical Association and the American Medical Association, is given to those physicians who voluntarily complete 150 credit hours of continuing medical education within a three-year period. Sixty of the credit hours must be earned in Category I programs.

Boone

William C. Bucher, *Columbia*
Milamari A. O. Cunningham, *Columbia*
Angel R. Garcia, *Columbia*
Jerry D. Kennett, *Columbia*

Butler-Wayne-Ripley-Carter

Sangwill L. Gernstetter, *Poplar Bluff*
Soung O. Kwoun, *Chesterfield*

Cape Girardeau

John K. Holcomb, *Cape Girardeau*

Clay-Platte

Ramon R. Dy-Ragos, *Kansas City*
Stephen E. Vilmer, *Kansas City*

Cole

Royal S. Garner, *Jefferson City*

Greene

Lynn N. Carlton, *Springfield*
Jon F. Snow, *Springfield*
David L. Spalding, *Springfield*

Jasper

Frederick M. Brandon, *Joplin*
Moheb A. S. Hallaba, *Joplin*
Sitaraman Subramanian, *Carthage*

Jefferson

James A. Junker, *St. Louis*

Metro Med-Greater Kansas City

Grant A. Bever, *Lee's Summit*
Gerhard W. Cibis, *Kansas City*
Howard M. Cloogman, *Kansas City*
Mary C. Colglazier, *Kansas City*
Thomas R. Cotton, *Kansas City*
Richard L. Cronemeyer, *Kansas City*

Metro Med-Greater Kansas City (Cont.)

Terrence Curran, *Kansas City*
Robert W. Doering, *Kansas City*
Samuel E. F. Ericsson, *Kansas City*
Melvin L. Glazer, *Kansas City*
Thomas S. Helling, *Kansas City*
Kent A. Huston, *Kansas City*
Guillermo Ibarra, *Kansas City*
Warren L. Johnson, *Kansas City*
Paul G. Koontz, *Kansas City*
John K. Layle, *Kansas City*
Donald E. McIntosh, *Lee's Summit*
Joseph A. Pinkerton, *Kansas City*
John F. Sarwark, *Kansas City*
Christopher Y. Thomas, *Kansas City*
Leonard A. Wall, *Kansas City*

Northeast

Lynn J. Walley, *Hannibal*

Ozarks

George C. Olive, *Neosho*

Pemiscot

Somporn Puangsuvan, *Caruthersville*

St. Charles-Lincoln

John C. Perlmutter, *St. Louis*

St. Louis Metropolitan

Phillip V. Asaro, *St. Louis*
James C. Bobrow, *Clayton*
Uma R. Eachempati, *Arnold*
Godofredo M. Herzog, *St. Louis*
Mark J. Hoffman, *St. Louis*
Scott A. Martin, *St. Louis*
Richard B. Oglesby, *St. Louis*
Federico B. Reiter, *St. Louis*
Isaias Spilberg, *St. Louis*
George H. Zografakis, *St. Louis*

Can you top this?

* Compare these graded premium whole life rates with any term:

Age	*$100,000*	*$250,000*	*$500,000*	*$1,000,000*
30	$118	$ 195	$ 371	$ 695
35	120	201	384.	725
40	149	253	480	935
45	179	322	615	1205
50	221	405	770	1535
55	314	593	1160	2295
60	506	998	1974	3915
65	837	1700	3384	6725

Non-Smoker Annual Rates Shown

- ★ Premiums are guaranteed for the first 5 policy years.
- ★ Convertible to any level premium whole life offered by company.
- ★ Premiums increase each year to age 75 then level.
- ★ Rated an "A" Excellent Life Company by A. M. Best Co.

For more information, return this form or contact:

Wes Woodbury & Associates
3609 NE 62nd Terrace
Kansas City, MO 64119
816-455-3400

Amount of insurance $ ____________

Date of Birth ____________

Smoker/Non-Smoker (circle one)

Name ____________

Address ____________

City/State ____________

Zip ____________ Phone ____________

America needs a great pair of hands . . . yours!

Add the prestige of an officer's commission to your medical career and receive the privileges, benefits and honors of military status. Although your participation is part-time, it's a lifetime of rewards. You'll be a member of a peer organization that goes beyond the usual associations and societies. You'll be involved in a highly motivated organization, actively committed to a vital goal. You'll join one of the best trained health care systems in the world, and take advantage of many of its resources. It's a lifetime of satisfaction in exchange for a small part of your time. For more information, contact your Army Guard Recruiter.

Captain
JOE SEILING
314-443-1737
Staff Sergeant
DAN KIRTON
816-922-3226

MISSOURI
ARMY NATIONAL GUARD

Toll Free in Missouri . . . 1-800-392-2173

THE GUARD
IS AMERICA
AT ITS BEST.

Continuing Medical Education

The continuing medical education accreditation program of the MSMA has full approval by the AMA's Council on Medical Education. The institutions and functions listed here qualify for Category I credit for the AMA Physician's Recognition Award. All accredited institutions in Missouri are invited to send this information for listing in MISSOURI MEDICINE. Please remember to include the name of the individual who can be contacted at your institution for additional information about your CME events.

December

7-8 **33rd Annual Urology Seminar** — Location: Hyatt Regency Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

14 **"MRI of the Knee — 3,000 Cases"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd., St. Louis, MO 63110. 314/362-7130.

January 1988

11 **"Radiology Conference"** — Location: St. Louis University, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd., St. Louis, MO 63110. 314/362-7130.

February

5-6 **"Midwinter Laser Course and Fluorescein Angiography Workshop"** — Location: Omni International Hotel at Union Station, St. Louis, MO. Contact: Jeanne B. Toma, 4949 Barnes Hospital Plaza, Suite 17413, St. Louis, MO 63110. 314/367-1181.

8 **"Acute Respiratory Disease in Children"** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd., St. Louis, MO 63110. 314/362-7130.

10-12 **"8th National Conference on CAPD"** — Location: Westin Crown Center Hotel, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

12-14 **Organizational Systems** — Location: Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

20-21 **Family Practice Update** — Location: Columbia, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

20-22 **"Advanced Cardiac Life Support Provider Course"** — Location: St. Louis University Medical Center, St. Louis, MO. Contact: Anita Herbst, St. Louis University School of Medicine, CME Office, 1402 S. Grand Ave., St. Louis, MO 63104. 314/577-8167.

March

14 **"2nd Annual Daniel R. Biello Memorial Lecture: 'Cardiovascular Nuclear Medicine' "** — Location: Mallinckrodt Institute of Radiology, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd., St. Louis, MO 63110. 314/362-7130.

April

11 **"Leroy Sante Lecture"** — Location: St. Louis University, St. Louis. Contact: R. Gilbert Jost, M.D., Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd., St. Louis, MO 63110. 314/362-7130.

14-15 **Respiratory Critical Care** — Location: Holiday Inn Executive Center, Columbia, MO. contact: Barry Kling, University of Missouri-Columbia, CME Office, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

29-30 **"Eating Disorders"** — Location: Hyatt Regency, Kansas City, MO. Contact: Barry Kling, University of Missouri-Columbia School of Medicine, MA215 Health Sciences Center, Columbia, MO 65212. 314/882-4105.

Index to Volume 84

A

- A Case-Control Study of Lung Cancer in St. Francois County, 1976-1984 — Brownson, Chang, Davis, Devier 596
- A correction and a compliment — Fairchild — Letters to the Editor 11
- A stand against drug testing — Lampton — Letters to the Editor 111
- Accardo, Pasquale — Book Reviews 739
- Acquired Methemoglobinemia — Foxworth, Mahmoud, Roberts 187
- Akhter, Mohammad N., et al — Coronary Artery Bypass: Missouri's Experience 21
- Akhter, Mohammad N., and Jaco, Dan — Denial of Payment for Poor Quality Care 137
- Akhter, Mohammad N., et al — HCFA's Plan for Implementation of the Medicare Second Opinion Program 79
- Allen, Brent T., et al — Takayasu's Disease Presenting as a Thoracoabdominal Aneurysm in an 18-year old 299
- Allen, Mark J., et al — Endoscopic Sclerotherapy as Early Treatment in Bleeding Esophageal Varices: A Preliminary Report 293
- Alspaugh, Margaret A. — Eagle-Barrett Syndrome 646
- America's Health Policy Agenda — Piepergerdes — President's Page 287
- An accomplished organization — Mitchell — Auxiliary Message 689
- Anderson, Charles B., et al — Takayasu's Disease Presenting as a Thoracoabdominal Aneurysm in an 18-year old 299
- Anderson, Philip C. — Medical Progress and the U.S. Constitution: Two Centuries 339
- Annual AMA leadership conference — Piepergerdes — President's Page 229
- Arrighi, David A., et al — Primary Melanoma of the Esophagus: A Case Report 296
- Ash, Charles J., et al — Thermography of the Curved Living Skin Surface 702
- Auxiliary auction April 2 — Corry, Willcoxon — Auxiliary Message 67
- Auxiliary begins 1987-88 program — Mitchell — Auxiliary Message 231
- Auxiliary Message —
  - An accomplished organization — Mitchell 689
  - Auxiliary begins 1987-88 program — Mitchell 231
  - The Auxiliary: Medicine's public relations director — Mitchell 117
  - Does your spouse know the benefits of Auxiliary membership? — Mitchell 581
  - Doctor's Day celebrated March 30 — H'Doubler 183
  - Driving fore membership — Perkins 635
  - Holiday Sharing Card 743
  - Physicians and Politics: March 3 is a day to remember — Barbee 17
  - Auxiliary auction April 2 — Corry, Willcoxon 67

B

- Back office tips — Conomikes — Practice Management 185
- Bamberger, David M., et al — Kawasaki Disease Presenting in an Adult as Inflammatory Diarrhea 71
- Bamshad, Michael — "Marigolds" April
- Barbee, Charles, et al — Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital 759
- Barbee, Pattye — Auxiliary Message — Physicians and Politics: March 3 is a day to remember 17
- Barbero, Guilio — Transient Pancytopenia as an Initial Manifestation of Hereditary Spherocytosis 73
- Bayer, William L., et al — Human Immunodeficiency Virus (HIV) Antibody Seropositivity in the Greater Kansas City Area 757
- Book Reviews
  - Medical Education — Bradshaw 225
  - Illness — Wright 225
  - Sherlock Holmes — Clary 739
- Bradshaw, William D. — Book Reviews 225
- Brazil, Maria J., et al — Extracardiac Malignancies Producing Tamponade 650
- Brownson, Ross C., et al — A Case-Control Study of Lung Cancer in St. Francois County, 1976-1984 596
- Burkey, Jordan W. — Editor's Desk—
  - Geriatric Health Needs 741
  - Guilt in the '80s 687
  - Joseph Warren, M.D. — physician and patriot 335
  - Mental vacations for the medical mind 285
  - *Missouri Medicine's* metamorphosis 633
  - Pioneers and Physicians: foes follow both groups 113
  - The media and medicine 13
  - Separating fact from fear 227
  - The truth about dermatology 63
  - What a dictionary reveals about medicine 179

C

- Carney, Kathleen, et al — Synchronous Renal and Pancreatic Transplantation 587
- Carter, James S., et al — Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital 759
- Castenada, Marco, et al — Synchronous Renal and Pancreatic Transplantation 587
- Cervical Conization — Gordan and Magrina 76
- Chang, Jian C., et al — A Case-Control Study of Lung Cancer in St. Francois County, 1976-1984 596
- Clary, William F., Book Reviews 739
- Classifieds 47, 95, 165, 209, 269, 321, 393, 557, 614, 673, 725, 793
- Codd, John E., et al — Extracardiac Malignancies Producing Tamponade 650
- Comparison of Non-Invasive Carotid Tests with An-

- giography in Assessing Carotid Stenosis — McFarland and Pinkerton 653
- Component Medical Societies 420
- Component Society Executives 475
- Computers — Conomikes — Practice Management 583
- Congenital Dislocation of the Hip — Frederick and Gaines 146
- Conley, Brian, et al — Transient Pancytopenia as an Initial Manifestation of Hereditary Spherocytosis 73
- Conomikes, George S. — Practice Management
  - Back office tips 185
  - Computers 583
  - Daily 2-minute meeting keeps doctor in charge 19
  - Designing your office 337
  - Do's and don'ts of writing a personnel manual 745
  - How to meet the competition 233
  - Improving your practice development 691
  - Reducing your collection costs 69
  - Selecting a computer 637
  - The telephone: Servant or tyrant — you decide 119
  - Time management 291
- Conservative Management of Ectopic Gestations — Starks and Grimes 26
- Continuing Medical Education 43, 93, 163, 205, 265, 317, 391, 399, 613, 663, 724, 785
- Controversy: HMOs in Missouri — Peters — Special Feature Article 639
- Cooper, Kent — Special thanks to MSMA — Letters to the Editor 283
- Cope, Ray — The Radiology of the Calcaneus 592
- Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital — Barbee, Carter, Crouch, N. Doroghazi, R. Doroghazi, Klinkenborg 759
- Coronary Artery Bypass: Missouri's Experience — Special Article — Akhter, Jaco, Elder 21
- Corry, Judy — Auxiliary Message — Auxiliary auction April 2 67
- Councilor Districts and Counties in Each District 419
- Covenant of Caring: Missouri's Physicians — Ekern — President's Page 65
- Cover Art —
  - Blue Heron: Spring on the Courtois Creek — O'Dell June
  - Blue Regatta — O'Brien March
  - Cardinal at Sunset — Martin January
  - Crack of Dawn — Orr December
  - Fireworks — Sherwin July
  - Greer's Springs — Tarneja September
  - Goings On In the Hollow — Orr February
  - It's Later Than You Think — Kent August
  - Lillies No. One — Fries November
  - Marigolds — Bamshad April
  - Ozark House —O'Malley October
  - The Cedar Hill Hotel — Diehl May
- Crouch, John A., et al — Coronary Artery Bypass Grafting In the Elderly: Experience in a Community Hospital 759

D

- Daily 2-minute meeting keeps doctor in charge — Conomikes — Practice Management 19
- Dall, Lawrence, et al — Kawasaki Disease Presenting in An Adult as Inflammatory Diarrhea 71
- Davis, James R., et al — A Case-Control Study of Lung Cancer in St. Francois County, 1976-1984 596
- Deaths —
  - Benson, John F. 49
  - Binder, Morton 97
  - Bisno, Daniel 600
  - Brown, John J. 161
  - Brumm, Lawrence W., Sr. 259
  - Catanzaro, Anthony, Jr. 717
  - Collins, Jack R. 49
  - Donaldson, Robert C. 600
  - Downs, Bruce V. 669
  - DuMontier, Rene J. 717
  - Fellhauer, Carl M. 669
  - Forti, John J. 306
  - Furlong, Frances Stewart 202
  - Gorla, Wayne O. 600
  - Gulick, Charles R. 202
  - Hall, Lee Aker 161
  - Harkins, William B. 669
  - Harlow, Lloyd M., Jr. 717
  - Hickox, John P. 202
  - Hoffman, A. David 600
  - Hoffman, Jacob S. 669
  - Johnson, Thomas W. 97
  - Kerr, Frank T. 600
  - King, James P. 97
  - Lambert, L. Marian 97
  - Littman, Lewis E. 600
  - Magness, William C. 600
  - Marshall, Cameron F. 202
  - Miller, Clint L. 202
  - Moreano, Almando H. 49
  - Morse, Marvin 49
  - Payne, Vaughn C., Sr. 161
  - Petersen, Harold 49
  - Popp, Carl G. 202
  - Post, John P. 259
  - Rendleman, George F. 202
  - Reynolds, James D. 202
  - Rusan, Thomas E. 259
  - Schaerrer, William C. 97
  - Scheff, Harold 202
  - Schwartzman, Bernard 306
  - Seabaugh, L. R. 161
  - Shobe, Frank O. 49
  - Soule, Samuel D. 97
  - Staton, R. Hamilton 669
  - Strehlman, Benjamin G. 717
  - Swisher, Robert C. 202
  - Taussig, Barrett L. 669
  - Thompson, C. Leslie 669
  - Throne, Elias M. 161
  - Tillman, Walter W., Jr. 669
  - Van Matre, Reber M. 202
  - Wakefield, Franklin H. 669
  - Wall, Emmett D. 600
  - Walther, Roy A., Jr. 717
  - Whitman, Doyle C. 600
  - Wien, Irving A. 600
  - Wilson, Keith S. 306
- Deem, Steven and Soffer, Allen D. — Nose Pain and Syncope in a Patient with Coronary Artery Disease 141
- Denial of Payment for Poor Quality Care — Special Article — Akhter and Jaco 137

Designing your office — Conomikes — Practice Management 337
Devier, Janice R., et al — A Case-Control Study of Lung Cancer in St. Francois County, 1976-1984 596
Diabetic Neuropathic Cachexia and Hypothyroidism in a Woman — Shah and Wright 143
Diehl, Henrietta — "The Cedar Hill Hotel" .... May
Dietrich, S. Katherine, et al — Human Immunodeficiency Virus (HIV) Antibody Seropositivity in the Greater Kansas City Area 757
Directory of Medical Specialty Organizations 425
Dixon, David G. — Regression of Renal Tumor with Seven-year Survival Following Renal Artery Embolization 29
Doctor's Day Celebrated March 30 — H'Doubler — Auxiliary Message 183
Does your spouse know the benefits of Auxiliary membership? — Mitchell — Auxiliary Message 581
Doroghazi, Nancy L., et al — Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital 759
Doroghazi, Robert M., et al — Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital 759
Do's and don'ts of writing a personnel manual — Conomikes — Practice Management 745
Driving fore membership — Perkins — Auxiliary Message 635

E

Eagle-Barrett Syndrome — Alspaugh and Levine 646
Editor's Desk — Burkey
  Geriatric Health Needs 741
  Guilt in the '80s 687
  Joseph Warren, M.D. — physician and patriot 335
  Mental vacations for the medical mind 285
  Missouri Medicine's metamorphosis 633
  Pioneers and physicians: foes follow both groups 113
  Separating fact from fear 227
  The media and medicine 13
  The truth about dermatology 63
  What a dictionary reveals about medicine 179
Editor's Desk — Sessions
  First AIDS 579
Ekern, H. Peter — President's Page —
  Covenant of Caring: Missouri's Physicians 65
  Missouri's medically indigent 115
  Physicians and politicians: Communication is the key 15
Elder, Susan, et al — Coronary Artery Bypass: Missouri's Experience 21
Endoscopic Sclerotherapy as Early Treatment in Bleeding Esophageal Varices: A Preliminary Report — Allen, Fowler, Helling, McPhee, Reynolds, Wilber 293
Endoscopic Sinus Surgery: A Functional Approach — Thawley 237
Extracardiac Malignancies Producing Tamponade — Brazil, Codd, Merjavy 650

F

Fairchild, J. F. — A correction and a compliment — Letters to the Editor 11
Financial Statement for the Years 1986 and 1985 — Missouri State Medical Association 123
Financial Statement for the Years 1986 and 1985 — Missouri State Medical Foundation 127
First AIDS — Sessions — Editor's Desk 579
Fowler, Dennis L., et al — Endoscopic Sclerotherapy: A Preliminary Report 293
Foxworth, John W., et al — Acquired Methemoglobinemia 187
Frederick, Keith J. and Gaines, Robert W. — Congenital Dislocation of the Hip 146
Frick, Warren, et al — Transient Pancytopenia as an Initial Manifestation of Hereditary Spherocytosis 73
Fries, John William — "Lillies No. One" .... November
Fry, Robert D., et al — Juvenile Polyposis, Not Always a Benign Self-Limiting Disease 190

G

Gaines, Robert W. and Frederick, Keith J. — Congenital Dislocation of the Hip 146
Garvin, Paul J., et al — Synchronous Renal and Pancreatic Transplantation 587
Geriatric Health Needs — Burkey — Editor's Desk 741
Gibbs, Harry R. and Zee-Cheng, Chi-Sung — Ventricular Standstill in Acute Inferior Myocardial Infarction with High Degree AV Block 33
Giedinghagen, Dale H., et al — Human Immunodeficiency Virus (HIV) Antibody Seropositivity in the Greater Kansas City Area 757
Gold, Susan Flanigan — William D. Bradshaw, M.D.: PRO Medicine 679
Gordon, Stephen M. and Magrina, Javier — Cervical Conization 76
Gotti, Edward, et al — Thermography of the Curved Living Surface 702
Grimes, Elwyn M. and Starks, Gregory C. — Conservative Management of Ectopic Gestations 26
Guilt in the '80s — Burkey — Editor's Desk 687

H

H'Doubler, Joan — Auxiliary Message — Doctor's Day Celebrated March 30 183
Haik, Chris H, et al — Thermography of the Curved Living Skin Surface 702
Hakami, Nasrollah, et al — Transient Pancytopenia as an Initial Manifestation of Hereditary Spherocytosis 73
Harmon, Robert G. — Missouri's Changing Health Care System 341
HCFA's Plan for Implementation of the Medicare Second Opinion Program — Special Article — Akhter, Jaco, Mangus 79
Helling, Thomas S., et al — Endoscopic Sclerotherapy as Early Treatment in Bleeding Esophageal Varices: A Preliminary Report 293
HIV Test Sites — Special Information 672
Hoff, Gerald, et al — Human Immunodeficiency Virus (HIV) Antibody Seropostivity in the Greater Kansas City Area 757
Hoff, Judy, et al — Synchronous Renal and Pancreatic Transplantation 587
Hosler, Mark W. — Neurotropic Melanoma of the Head and Neck 243

- How to meet the competition — Conomikes — Practice Management ... 233
- Human Immunodeficiency Virus (HIV) Antibody Seropositivity in the Greater Kansas City Area — Bayer, Dietrich, Giedinghagen, Hoff ... 757

I

- Improving your practice development — Conomikes — Practice Management ... 691
- Index to Advertisers ... 38, 94, 154, 194, 268, 314, 381, 554, 612, 656, 719, 770
- Index to Volume 84 ... 786
- Insurance Plans Available to MSMA Members ... 429

J

- Jaco, Dan, et al — Coronary Artery Bypass: Missouri's Experience ... 21
- Jaco, Dan and Akhter, Mohammad N. — Denial of Payment for Poor Quality Care ... 137
- HCFA's Plan for Implementation of the Medicare Second Opinion Program — Akhter, Jaco, Mangus . 79
- Joseph Warren, M.D. — physician and patriot — Burkey — Editor's Desk ... 335
- Juvenile Polyposis, Not Always a Benign, Self-Limiting Disease — Fry, Kodner, Neufeld, Shemish ... 190

K

- Kawaski Disease Presenting in an Adult as Inflammatory Diarrhea — Postelwait, Dall, Bamberger . 71
- Kent, Rockwell — "It's Later Than You Think" . August
- Klinkenborg, Kay, et al — Coronary Artery Bypass Grafting in the Elderly: Experience in a Community Hospital ... 759
- Kodner, Ira J., et al — Juvenile Polyposis, Not Always a Benign, Self-Limiting Disease ... 190
- Kuhlman, Robert E. — Let's review the reviewers — Letters to the Editor ... 283

L

- Lally, James J. — On Clearer Hearing ... 576
- Lampton, Lawrence M. — A stand against drug testing — Letters to the Editor ... 111
- Leprosy in Missouri — Roller and Westblom ... 699
- Letters to the Editor —
  - A correction and a compliment — Fairchild ... 11
  - A stand against drug testing — Lampton ... 111
  - Alzheimer's Disease — Masters ... 575
  - Correction — Resolution 5 — MSMA ... 426
  - Let's review the reviewers — Kuhlman ... 283
  - MSMA lobbying deserves praise — Boyarsky ... 426
  - Special thanks to MSMA — Cooper ... 283
- Levine, Clive — Eagle-Barrett Syndrome ... 646

M

- Magrina, Javier and Gordon, Stephen M. — Cervical Conization ... 76
- Mahmoud, Said F., et al — Acquired Methemoglobinemia ... 187
- Mangus, Thomas E., et al — HCFA's Plan for Implementation of the Medicare Second Opinion Program ... 79
- Martin, Richard A. — Neurotropic Melanoma of the Head and Neck ... 243
- Martin, Terry L. — "Cardinal at Sunset" ... January
- Masters, Edwin J. — Alzheimer's Disease — Letters to Editor ... 575
- McFarland, H. Richard — Comparison of Non-Invasive Carotid Tests with Angiography in Assessing Carotid Stenosis ... 653
- McPhee, Mark S., et al — Endoscopic Sclerotherapy as Early Treatment in Bleeding Esophageal Varices: A Preliminary Report ... 293
- Medical Progress and the U.S. Constitution: Two Centuries — Anderson ... 339
- Medical School News — ... 35, 85, 155, 195, 261, 307, 387, 603, 657, 713, 779
- Mental vacations for the medical mind — Burkey — Editor's Desk ... 285
- Marjavy, John P., et al — Extracardiac Malignancies Producing Tamponade ... 650
- Metropolitan Specialty Organizations ... 427
- Missouri's Changing Health Care System — Harmon 341
- Missouri's medically indigent — Ekern — President's Page ... 115
- Missouri Medicine's metamorphosis — Burkey — Editor's Desk ... 633
- Missouri Volunteer Health Agencies ... 430
- Missouri State Medical Association —
  - Alphabetical Roster of Members ... 439
  - 129th Annual Convention Exhibitors ... 367
  - Committee and Commission Reports ... 375
  - Component Medical Societies ... 420
  - Component Society Executives ... 475
  - Component Society Roster ... 477
  - Convention Candids ... 333
  - Councilor Districts and Counties in each district ... 419
  - Courtesy Resolution Richard P. Bowles, M.D. ... 360
  - Courtesy Resolution on Deceased Members ... 360
  - Directory of Medical Specialty Organizations ... 425
  - Financial Statement for the Years 1986 and 1985 ... 123
  - Insurance Plans Available to MSMA Members ... 429
  - Metropolitan Specialty Organizations ... 427
  - Minutes — 129th Annual Convention ... 348
  - 1987-88 Officers ... 408
  - MSMA Committees and Commissions ... 422
  - MSMA Organizes Hospital Medical Staff Section .. 106
  - Physician Rehabilitation Directory ... 435
  - Preliminary Program — 129th Annual Convention . 129
  - Presidential Inauguration Speech — Larry G. Piepergerdes, M.D. ... 363
  - President's Message — H. Peter Ekern, M.D. ... 361
  - Registration of the 129th Annual Convention ... 382
  - Report of the Auxiliary — Mrs. Steven Vilmer ... 366
  - Resolutions of the 129th MSMA House of Delegates ... 357
  - Summary of Council Minutes ... 371
- Missouri State Medical Foundation —
  - Financial Statement for the Years 1986 and 1985 ... 127
  - Board of Trustees Meeting Report — ... 368
- Mitchell, Sandy — Auxiliary Message —
  - An accomplished organization ... 689
  - Auxiliary begins 1987-88 program ... 231
  - Does your spouse know the benefits of Auxiliary membership? ... 581

The Auxiliary: Medicine's public relations director . 117
MSMA Organizes Hospital Medical Staff Section 106

N

National Kidney Foundation of Eastern Missouri and Metro East, Inc. — The Health Insurance Experience and Status of Missouri Renal Transplant Recipients 764
Neufeld, David M., et al — Juvenile Polyposis, Not Always a Benign Self-Limiting Disease 190
Neurotropic Melanoma of the Head and Neck — Hosler, Martin, Schroeder 243
New Members —
.... 39, 89, 158, 199, 251, 303, 385, 608, 623, 721, 775
Niederee, W. C., et al — Primary Melanoma of the Esophagus: A Case Report 296
Nose Pain and Syncope in a Patient with Coronary Artery Disease — Deem and Soffer 141

O

O'Brien, Margaret Kelly — "Blue Regatta" .... March
O'Dell, John — "Blue Heron: Spring on the Courtois Creek" .... June
O'Malley, James F. — "Ozark House" .... October
On Clearer Hearing — Lally 576
Oro, John J. — Severe Head Injury: Stabilization and Neurological Evaluation 247
Orr, Joseph — "Crack of Dawn" .... December
Orr, Joseph — "Goings on in the Hollow" .... February

P

Pemberton, L. Beaty, et al — Primary Melanoma of the Esophagus: A Case Report 296
Perkins, Marge — Driving fore membership — Auxiliary Message 635
Perry, Michael C. — The Changing Face of Leukocytosis 697
Peters, Valerie A. — Controversy: HMOs in Missouri — Special Feature Article 639
Peters, Valerie A. — Where the Fault Lies — Special Feature Article 749
Physicians and Politicians: Communication is the key — Ekern — President's Page 15
Physicians and Politics: March 3 is a day to remember — Barbee — Auxiliary Message 17
Physician's Recognition Awards —
.... 49, 97, 161, 200, 259, 305, 386, 601, 661, 717, 783
Physician Rehabilitation Directory 435
Piepergerdes, Larry G. — President's Page —
  America's Health Policy Agenda 287
  Annual AMA leadership conference 229
  Why Belong 181
Pinkerton, Joe A. — Comparison of Non-Invasive Carotid Tests with Angiography in Assessing Carotid Stenosis 653
Pioneers and physicians: foes follow both groups — Burkey — Editor's Desk 113
Postelwait, Gary L., et al — Kawasaki Disease Presenting in an Adult as Inflammatory Diarrhea ... 71
Practice Management — Conomikes —
  Back office tips 185
  Computers 583
  Daily 2-minute meeting keeps doctor in charge 19
  Designing your office 337
  Do's and don'ts of writing a personnel manual 745
  How to meet the competition 233
  Improving your practice development 691
  Reducing your collection costs 69
  Selecting a computer 637
  The telephone: servant or tyrant — you decide 119
  Time Management 291
Preliminary Program — 129th Annual Convention, MSMA 129
President's Page — Ekern
  Covenant of caring: Missouri's physicians 65
  Missouri's medically indigent 115
  Physicians and politicians: Communication is the key 15
President's Page — Piepergerdes —
  America's Health Policy Agenda 287
  Annual AMA leadership conference 229
  Why Belong 181
Primary Melanoma of the Esophagus: A Case Report — Arrighi, Niederee, Pemberton 296
Progress Notes — MSMA
..... 7, 59, 107, 219, 279, 331, 403, 563, 627, 683, 735

R

Radiology of the Calcaneus, The — Cope 592
Reducing your collection costs — Conomikes — Practice Management 69
Regression of Renal Tumor with Seven-Year Survival Following Renal Artery Embolization — Dixon .. 29
Reynolds, James D. H., et al — Endoscopic Sclerotherapy as Early Treatment in Bleeding Esophageal Varices: A Preliminary Report 293
Roberts, Jesse A., et al — Acquired Methemoglobinemia 187
Roller, James A. — Leprosy in Missouri 699

S

Schroeder, Walter A., Jr. — Neurotropic Melanoma of the Head and Neck 243
Selecting a computer — Conomikes — Practice Management 637
Separating fact from fear — Burkey — Editor's Desk . 227
Sessions, Donald G. — First AIDS — Editor's Desk .. 579
Severe Head Injury: Stabilization and Neurological Evaluation — Oro 247
Shah, Jayendra H. and Wright, Diana L. — Diabetic Neuropathic Cachexia and Hypothyroidism in a Woman 143
Shemesh, Eli I., et al — Juvenile Polyposis, Not Always a Benign, Self-Limiting Disease 190
Sherwin, Charles S. — "Fireworks" .... July
Sicard, Gregorio A., et al — Takayasu's Disease Presenting as a Thoracoabdominal Aneurysm in an 18-Year Old 299
Soffer, Allen D. and Deem, Steven — Nose Pain and Syncope in a Patient with Coronary Artery Disease 141
Special Article —
  Coronary Artery Bypass: Missouri's Experience — Akhter, Jaco, Elder 5
  Denial of Payment for Poor Quality Care — Akhter, Jaco 137

HCFA's Plan for Implementation of the Medicare Second Opinion Program — Akhter, Jaco, Mangus 79
Starks, Gregory C. and Grimes, Elwyn M. — Conservative Management of Ectopic Gestations 26
Synchronous Renal and Pancreatic Transplantation — Carney, Castenada, Garvin, Hoff 587

T

Takayasu's Disease Presenting as a Thoracoabdominal Aneurysm in an 18-year old — Allen, Anderson, Sicard 299
Tarneja, Kailash C. — "Greer's Springs" ..... September
Thawley, Stanley E. — Endoscopic Sinus Surgery: A Functional Approach 237
The Auxiliary: Medicine's public relations director — Mitchell — Auxiliary Message 117
The Changing Face of Leukocytosis — Perry and Walker 679
The Health Insurance Experience and Status of Missouri Renal Transplant Recipients — The Scientific Advisory Board, National Kidney Foundation of Eastern Missouri and Metro East, Inc. 764
The media and medicine — Burkey — Editor's Desk . 13
The Scientific Advisory Board, et al — The Health Insurance Experience and Status of Missouri 764
The telephone: servant or tryant — you decide — Conomikes — Practice Management 119
The truth about dermatology — Burkey — Editor's Desk 63
Thermography of the Curved Living Skin Surface — Ash, Gotti, Haik 702
Time management — Conomikes — Practice Management 291
Transient Pancytopenia as an Initial Manifestation of Hereditary Spherocytosis — Barbero, Conley, Frick, Hakami 73

V

Ventricular Standstill in Acute Inferior Myocardial Infarction with High Degree AV Block — Gibbs and Zee-Cheng 33

W

Walker, Nancy J. — The Changing Face of Leukocytosis 697
Westblom, T. Ulf — Leprosy in Missouri 699
What a dictionary reveals about medicine — Burkey — Editor's Desk 179
Where the Fault Lies — Peters — Special Feature Article 749
Why belong — Piepergerdes — President's Page 181
Wilber, Robert D., et al — Endoscopic Sclerotherapy as Early Treatment in Bleeding Esophageal Varices: A Preliminary Report 293
Wilcoxon, Dot — Auxiliary Message — Auxiliary auction — April 2 67
William D. Bradshaw, M.D.: PRO Medicine — Gold . 679
Wright, Diana L. and Shah, Jayendra H. — Diabetic Neuropathic Cachexia and Hypothyroidism in a Woman 143
Wright, James R., Jr. — Book Reviews 225
Zee-Cheng, Chi-Sung and Gibbs, Harry R. — Ventricular Standstill in Acute Inferior Myocardial Infarction with High Degree AV Block 33

Million/Million Coverage
All Medical Classes
Occurrence & Claims-Made

- Many malpractice insurors have liability limits of $200,000 to $600,000. Many offer coverage to only some medical classes. Risk Control Associates offers "Million/Million" coverage on *all* medical classes at highly competitive rates.
- Risk Control Associates is a company established and owned by physicians. As specialists in the professional liability insurance industry, we are dedicated to serving the special needs of physicians.
- In response to those needs, we offer both *Occurrence* and *Claims-Made* policies and a complete range of support services. It is our commitment to specialization that allows us to achieve excellence in risk selection, risk management, claims management, and physician defense.
- Risk Control Associates presently represents over 1,000 physicians in Missouri and, unlike most medical liability insurors, we are continuing to expand.
- For a quotation on our exceptional insurance products and support services, call 1-800-422-5122 or 417-862-0650.

RISK CONTROL
ASSOCIATES, INC.
MEDICAL LIABILITY INSURORS

1111 South Glenstone • Springfield, Missouri 65804

Physicians Helping Physicians

A Missouri Mutual Assessable
Chapter 383 Company

Classifieds

CLASSIFIED ADVERTISING INFORMATION

Rates: $15 per insertion for 50 words or less for members and $25 per insertion for 50 words or less for nonmembers, with an additional 25¢ per word in excess of 50.

Copy Deadline: Copy due by the first of the month prior to month of publication. Send to MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City 65102.

Word Count: Count as one word all single words, two initials of a name, each abbreviation, isolated numbers, groups of numbers, hyphenated words. Count file numbers as five words.

File Numbers — Advertisers using file numbers forbid disclosure of their identity. Written inquiries are forwarded to such advertisers. To assure prompt delivery when replying to an advertisement with a Journal file number, address letters as follows: File (insert number), c/o Missouri State Medical Association, P.O. Box 1028, Jefferson City, Mo. 65102.

All advertisements are subject to approval by the Editorial Board prior to acceptance.

Physicians Wanted

Internist BC/BE with or without subspecialty to join five-physician single specialty group practice in S.W. Missouri serving a population of 1,000,000+. Excellent opportunity with competitive salary guaranteed plus incentive bonus. Malpractice and excellent benefits paid; opportunity for ownership. Pleasant recreational environment in the Ozarks. Please call or mail CV to Administrator, The Diagnostic Clinic, 3443 South National, Springfield, MO 65807. 417/883-3443.

Psychiatrist wanted to work in established private practice with office locations in Creve Coeur and Florissant, Missouri. Responsibilities include outpatient and hospital rounds. Part-time and full-time positions available. Excellent financial package as well as opportunity to form long-term relationship. Please contact John at 314/993-8950.

One Psychiatrist — needed to complement a team of dynamic psychiatrists and general physicians. Located 65 miles south of St. Louis on Highway 67, our hospital has 318 beds. We are looking for Board Certified or Eligible specialists. Remuneration will range from $67,000 up, depending on years of experience, Board Certification and optional on-call days. Fringe benefits come to an additional 35% of the salary which includes vacation time, sick time, CME allowance, health insurance and life insurance. For detailed information, please write to: Adolph J. Herath, M.D., Medical Director, Farmington State Hospital, Farmington, MO 63640 or call 314/756-6792, extension 347.

Emergency Medicine in IL and MO — Full and part-time positions available in emergency departments and clinics for qualified physicians seeking lucrative employment opportunities. Outstanding remuneration and comprehensive malpractice insurance provided. For further information contact: Sara Kramer or Lisa Tantillo, staffing specialists. National Emergency Services, Inc., 255 Executive Dr., Suite 104, Plainview, NY 11803 or call 1-800-645-4848 or 516/349-0100.

Occupational Medicine Physician — to join a well-established group practice serving more than 200 industries. Excellent compensation and full partnership potential. Responsibilities include primary care, treating workmen's comp injuries, disability evaluations, medical surveillance, and developing and implementing occupational medical programs for various industries. Should be board certified/eligible, M.D. Send C.V. to: William R. Green, M.D., Macon Medical Center, 7200 Manchester, St. Louis, MO 63143, or call 314/645-7744.

Board Certified/Eligible Psychiatrist position available at the John J. Pershing VA Medical Center which is JCAH accredited. This is a 225-bed facility with a Mental Hygiene Clinic. The Medical Center is located in the scenic southeast Missouri city of Poplar Bluff. The locality offers good local schools with a junior college, recreational activities and a reasonable cost of living. Excellent benefits such as 30 days paid vacation, 15 days paid sick leave, low cost health/life insurance, retirement plan with government matched thrift savings plan. No malpractice insurance required since coverage is provided by the Federal Torts Act. U.S. Citizens must be given first consideration, but physicians with permanent or immigrant visas may also be considered. Salary commensurate with qualifications (range $70,000-$76,000) based upon experience, training, and board certification. Interested physicians should contact Don L. Andrus, M.D., Chief of Staff, John J. Pershing VA Medical Center, 1500 N. Westwood Blvd., Poplar Bluff, MO 63901, or telephone 314/686-4151, ext. 201. AN EQUAL OPPORTUNITY EMPLOYER.

Director, Occupational Health: Opportunity to direct growing occupational health service in large midwestern city. Position offers a variety of challenges in conjunction with joint programs in sports medicine and executive fitness. BE/BC with 1-2 years experience a plus. Competitive salary, incentives, and a negotiable benefits package. Contact Jim Davis, TYLER & CO, 9040 Roswell Road, Atlanta, GA. CALL 404/641-6411.

Family Practice or BE/BC general surgical opportunity in a North Missouri Community to replace a retiring BC surgeon. Practice is located in a multi-office medical building adjacent to a modern, well-equipped 50-bed hospital. Will make attractive arrangements for sale or lease of equipment. Letters of inquiry with CV to File #5, c/o MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City, MO 65102.

Family Physician Needed — Immediate need for BC/BE family physician to join 2 established family physicians in private practice in N.W. Iowa community of 5,000. Modern clinic across the street from JCAH hospital. Excellent salary and fringe benefits with partnership opportunity. Locum tenens opportunity available also. Call collect 712/324-2511 or contact Sheldon Family Practice Associates, 206 N. 7th Ave., Sheldon, Iowa 51201.

Board Certified Psychiatrist, Chief, Psychiatry Service. Position available at the John J. Pershing VA Medical Center for the right individual to head newly approved Psychiatry Service with new inpatient program and es-

Physicians Wanted

tablished outpatient Mental Hygiene Clinic. The Medical Center is located in the scenic Southeast Missouri city of Poplar Bluff. The locality offers good local schools with a junior college, recreational activities and a reasonable cost of living. Excellent benefits such as 30 days paid vacation, 15 days paid sick leave, low cost health/life insurance, retirement plan with government matched thrift savings plan. No malpractice insurance required since coverage is provided by the Federal Torts Act. Citizens must be given first consideration, but physicians with permanent or immigrant visas may also be considered. Salary commensurate with qualifications (range $78,000-$86,000) based upon experience, training, and board certification. Interested physicians should contact Don L. Andrus, M.D., Chief of Staff, John J. Pershing Medical Center, 1500 N. Westwood Blvd., Poplar Bluff, MO 63901, or telephone 314/686-4151, extension 201. AN EQUAL OPPORTUNITY EMPLOYER.

Pediatrician, Family Practice, OB/GYN, General Internist & ENT — needed for two-hospital, historic river town of 20,000. Drawing area of approximately 60,000 with new 19,000 acre recreational lake. Unlimited potential. Contact: Carol Murphy, Physician Recruitment, 623 Broadway, Hannibal, MO 63401 or call 314/221-3107.

Healthline Physician Services, an affiliate of St. Louis University Medical Center, has part-time and full-time opportunities available for physicians in Emergency Department, Clinic, and Locum Tenens work. We are presently recruiting for emergency departments in St. Louis city and metropolitan area. Excellent compensation, flexible schedules, administrative opportunities and benefits, no "on-call" responsibilities and a challenging medical environment. If you are just starting out, looking for a career change, or want to supplement your income from another source please contact: Barry Trautman, Healthline Physician Services, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Busy Urban Internist — Looking for associate for expanding practice. Share overhead and on-call. Qualified candidate should possess board certification, a valid Missouri license and be familiar with HIV-related diseases. Admissions made primarily to teaching hospitals. Faculty appointment possible. Respond with CV to: File #4444, c/o MISSOURI MEDICINE, 113 Madison, P.O. Box 1028, Jefferson City, MO 65102.

Family Physician Wanted — BC/BE family practitioner to join two family practitioners in profitable practice in Independence, MO. Adjacent to 300-bed fully-accredited hospital. Excellent salary and fringe benefits. Call collect: 816/836-8200, 9:00 a.m. to 12:00 p.m. and 1:00 to 4:00 p.m., for V. Link, M.D.

Full-Time Private Practice Opportunities from Healthline Physician Services, an affiliate of St. Louis University Medical Center, for the following specialties: Board Eligible or Board Certified Internal Medicine, and Board Certified Family Practice, Pediatrics and OB-GYN. Positions include income guarantee and no capital investment. For more information contact: Barry Trautman, 3663 Lindell, St. Louis, MO 63108. 800/443-3901.

Positions Wanted

Position wanted. Board Certified Cardiologist (internist) Invasive — Non Invasive, Missouri licensed, wishes to join group, hospital, industry, company, etc. Reply to Box No. 8, c/o MSMA, P.O. Box 1028, Jefferson City, MO 65102.

Practice For Sale

Private Practice Opportunities: Family Practice and Internal Medicine, no cash outlay, attractive salary, excellent incentive compensation, liberal benefits including malpractice. Prospective for OB/GYN, Pediatrics, Psychiatry. Send C.V. to Don Hoit, Farris & Associates, Inc., 16216 Baxter Road, Suite 200, Chesterfield, MO 63017 (314) 532-4880.

Board certified psychiatrist wants to buy a psychiatric practice in St. Louis Metropolitan area. Please reply c/o Missouri State Medical Association, P.O. Box 1028, 113 Madison St., Jefferson City, MO 65102, File #10.

Worldwide opportunities. HEALTH RESOURCES now has more than 70 affiliated offices throughout the United States and three international representatives serving physicians interested in selling, buying or relocating their practice. Our work has received national attention in publications ranging from MEDICAL ECONOMICS to MEDICAL GROUP MANAGEMENT. Competition, illness and death can cut your practice's value overnight. If you are 55 years of age or older, are tired of the business burdens of owning a practice, or plan to move to a better area within the next two years, you need to begin your transition plan now. Call HEALTH RESOURCES, LTD. in confidence. 816/587-0920 (Opportunities will be discussed at the March 1988 MSMA meeting for those with advanced plans.)

Practice Wanted

$1,000,000 per year practice, with owner(s) interested in selling and/or retiring within 24 months. Equity payments and continuing compensation to be tailored to individual plans. Reply in confidence with a description of your practice and plans for the near future c/o File #4, MSMA, Box 1028, Jefferson City, MO 65102.

Investment

Invest now for the future in Missouri's horse racing. Have Kansas City's top breeding/boarding farm with this 12-stall stable, indoor arena, 80-acre farm situated near major highways, and live in this 6-bedroom executive home, indoor pool, and tennis court. Call JOAN BIGGERS, 816/252-0667, REALTY WORLD-CASTEEL.

Investment. Limited Partnership Medical Practice (all specialties and general) Equipment and building, Mid-town St. Louis $100,000/share. Send letters of interest to P.O. Box 6302, St. Louis, MO 63106.

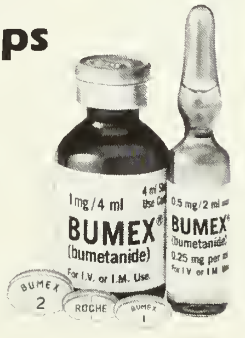
Get results
with
Missouri
Medicine
classifieds
314/636-5151

5760 U34
6651

In acute and chronic edema due to CHF

FOR PREDICTABLE CONTROL

- **Less potassium loss for a given amount of sodium excretion than with furosemide[1-3]**
- **Predictable dose response[4]**
- **Diuresis completed hours faster than with furosemide after oral dosing[5]**
- **Better GI absorption[6,7]**
- **Early evening dosing helps prevent nocturnal dyspnea**



As with all loop diuretics, excessive doses of BUMEX can lead to profound diuresis with water and electrolyte depletion, including hypokalemia, so serum electrolytes should be monitored.

Bumex®
bumetanide/Roche

0.5-mg, 1-mg and 2-mg scored tablets; 2-ml ampuls and 2-ml, 4-ml and 10-ml vials (0.25 mg/ml)

References: 1. Flamenbaum W: *Am J Cardiol 57*(2):38A-43A, 1986. 2. Brater DC, Fox WR, Chennavasin P: *J Clin Pharmacol 21* 599-603, 1981. 3. Iber FL, Baum RA: *J Clin Pharmacol 21* 697-700, 1981. 4. Henning R, Lundvall O: *Eur J Clin Pharmacol 6*:224-227, 1973. 5. Physicians' Desk Reference, 40th ed. Oradell, NJ, Medical Economics Company, 1986, pp 939, 1480. 6. Pentikainen PJ, *et al: Br J Clin Pharmacol 4* 39-44, 1977. 7. *Losix, A Review*. Somerville, NJ, Hoechst-Roussel Pharmaceuticals, Inc., 1980

BUMEX®
(bumetanide/Roche)
0.5-mg, 1-mg and 2-mg scored tablets
2-ml ampuls, 2-ml, 4-ml and
10-ml vials (0.25 mg/ml)
Before prescribing, please consult complete product information, a summary of which follows:

> **WARNING: Bumex (bumetanide/Roche) is a potent diuretic which, if given in excessive amounts, can lead to a profound diuresis with water and electrolyte depletion. Therefore, careful medical supervision is required, and dose and dosage schedule have to be adjusted to the individual patient's needs. (See under DOSAGE AND ADMINISTRATION in complete product information.)**

INDICATIONS AND USAGE: Edema associated with congestive heart failure, hepatic and renal disease, including the nephrotic syndrome.
Almost equal diuretic response occurs after oral and parenteral administration of Bumex. If impaired gastrointestinal absorption is suspected or oral administration is not practical, Bumex should be given by the intramuscular or intravenous route.
Successful treatment with Bumex following instances of allergic reactions to furosemide suggests a lack of cross-sensitivity.
CONTRAINDICATIONS: Anuria. Hypersensitivity and in patients in hepatic coma or in states of severe electrolyte depletion. Although Bumex can be used to induce diuresis in renal insufficiency, any marked increase in blood urea nitrogen or creatinine, or the development of oliguria during therapy of patients with progressive renal disease, is an indication for discontinuation of treatment.
WARNINGS: Dose should be adjusted to patient's needs. Excessive doses or too frequent administration can lead to profound water loss, electrolyte depletion, dehydration, reduction in blood volume and circulatory collapse with the possibility of vascular thrombosis and embolism, particularly in elderly patients.
Prevention of hypokalemia requires particular attention in patients receiving digitalis and diuretics for congestive heart failure, hepatic cirrhosis and ascites, states of aldosterone excess with normal renal function, potassium-losing nephropathy, certain diarrheal states, or other states where hypokalemia is thought to represent particular added risk to the patients.
In patients with hepatic cirrhosis and ascites, sudden alterations of electrolyte balance may precipitate hepatic encephalopathy and coma. Treatment in such patients is best initiated in the hospital with small doses and careful monitoring of the patient's clinical status and electrolyte balance. Supplemental potassium and/or spironolactone may prevent hypokalemia and metabolic alkalosis in these patients.
In cats, dogs and guinea pigs, Bumex has been shown to produce ototoxicity. Since Bumex is about 40 to 60 times as potent as furosemide, it is anticipated that blood levels necessary to produce ototoxicity will rarely be achieved. The potential for ototoxicity increases with intravenous therapy, especially at high doses.
Patients allergic to sulfonamides may show hypersensitivity to Bumex.
PRECAUTIONS: Measure serum potassium periodically and add potassium supplements or potassium-sparing diuretics, if necessary. Periodic determinations of other electrolytes are advised in patients treated with high doses or for prolonged periods, particularly in those on low salt diets.
Hyperuricemia may occur. Reversible elevations of the BUN and creatinine may occur, especially with dehydration and in patients with renal insufficiency. Bumex may increase urinary calcium excretion.
Possibility of effect on glucose metabolism exists. Periodic determinations of blood sugar should be done, particularly in patients with diabetes or suspected latent diabetes.
Patients should be observed regularly for possible occurrence of blood dyscrasias, liver damage or idiosyncratic reactions.
Especially in presence of impaired renal function, use of parenterally administered Bumex should be avoided in patients to whom aminoglycoside antibiotics are also being given, except in life-threatening conditions.
Drugs with nephrotoxic potential and bumetanide should not be administered simultaneously.
Since lithium reduces renal clearance and adds a high risk of lithium toxicity, it should not be given with diuretics.
Probenecid should not be administered concurrently with Bumex.
Concurrent therapy with indomethacin not recommended.
Bumex may potentiate the effects of antihypertensive drugs, necessitating reduction in dosage.
Interaction studies in humans have shown no effect on digoxin blood levels.
Interaction studies in humans have shown Bumex to have no effect on warfarin metabolism or on plasma prothrombin activity.
Pregnancy: Bumex should be given to a pregnant woman only if the potential benefit justifies the potential risk to the fetus.
Bumetanide may be excreted in breast milk.
Pediatric Use: Safety and effectiveness below age 18 not established.
ADVERSE REACTIONS: Muscle cramps, dizziness, hypotension, headache and nausea, and encephalopathy (in patients with preexisting liver disease).
Less frequent clinical adverse reactions are weakness, impaired hearing, rash, pruritus, hives, electrocardiogram changes, abdominal pain, arthritic pain, musculoskeletal pain and vomiting.
Other clinical adverse reactions are vertigo, chest pain, ear discomfort, fatigue, dehydration, sweating, hyperventilation, dry mouth, upset stomach, renal failure, asterixis, itching, nipple tenderness, diarrhea, premature ejaculation and difficulty maintaining an erection.
Laboratory abnormalities reported are hyperuricemia, azotemia, hyperglycemia, increased serum creatinine, hypochloremia, hypokalemia, hyponatremia, and variations in CO_2 content, bicarbonate, phosphorus and calcium. Although manifestations of the pharmacologic action of Bumex, these conditions may become more pronounced by intensive therapy.
Diuresis induced by Bumex may also rarely be accompanied by changes in LDH, total serum bilirubin, serum proteins, SGOT, SGPT, alkaline phosphatase, cholesterol, creatinine clearance, deviations in hemoglobin, prothrombin time, hematocrit, platelet counts and differential counts. Increases in urinary glucose and urinary protein have also been seen.
DOSAGE AND ADMINISTRATION:
Oral Administration: The usual total daily dosage is 0.5 to 2.0 mg and in most patients is given as a single dose.
Parenteral Administration. Administer to patients (IV or IM) with GI absorption problem or who cannot take oral. The usual initial dose is 0.5 to 1 mg given over 1 to 2 minutes. If insufficient response, a second or third dose may be given at 2 to 3 hour intervals up to a maximum of 10 mg a day.
HOW SUPPLIED: *Tablets*, 0.5 mg (light green), 1 mg (yellow) and 2 mg (peach), bottles of 100 and 500, Prescription Paks of 30, Tel-E-Dose® cartons of 100. Imprint on tablets: 0.5 mg—ROCHE BUMEX 0.5, 1 mg—ROCHE BUMEX 1, 2 mg—ROCHE BUMEX 2.
Ampuls, 2 ml, 0.25 mg/ml, boxes of ten
Vials, 2 ml, 4 ml and 10 ml, 0.25 mg/ml, boxes of ten

P.I. 0985

Roche Laboratories
ROCHE
a division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

Medic-3
DEFIBRILLATOR

In acute and chronic edema due to CHF

A DIURETIC THAT GIVES YOU PREDICTABLE CONTROL

Bumex®
bumetanide/Roche

0.5-mg, 1-mg and 2-mg scored tablets; 2-ml ampuls and 2-ml, 4-ml and 10-ml vials (0.25 mg/ml)

Please see adjacent page for references and summary of product information.

Copyright © 1987 by Hoffmann-La Roche Inc. All rights reserved.